TD225S383A41992

PROPERTY OF SANTA CLARA VALLEY
WATER DISTRICT
5750 Almaden Expressway
San Jose, California 95

SANTA CLARA VALLEY WATER DISTRICT

WATER SHORTAGE CONTINGENCY PLAN

Prepared by

Scott Akin
Water Conservation Coordinator

Under the direction of

John H. Sutcliffe
Supervising Engineer
Technical Support Division

James M. Fiedler
Principal Engineer
Water Planning Branch

TD
225
S383.A4
1992

Ronald R. Esau
General Manager

Leo F. Cournoyer
Water Supply Manager

JANUARY 1992

DISTRICT BOARD OF DIRECTORS

Joe Pandit	**District 1**	**James J. Lenihan**	**District 5**
Patrick J. Ferraro, Chairman	**District 2**	**Sig Sanchez**	**At Large**
Robert W. Gross	**District 3**	**Joe Judge**	**At Large**
Joseph H. Donohue, Vice Chairman	**District 4**		

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INTRODUCTION

The California Water Code was amended in October, 1991 and requires all water agencies to prepare an Urban Water Shortage Contingency Plan (Contingency Plan). This Contingency Plan is a supplement to the previously completed Urban Water Management Plan (UWMP) submitted by the Santa Clara Valley Water District to the California Department of Water Resources in December 1990. This document is designed to satisfy the requirements of the amendment to the California Water Code contained in Section 10631, Paragraph (e)[1] through [9].

1. COORDINATION WITH OTHER AGENCIES

This plan was developed in coordination with local retail water suppliers and other local agencies including the Santa Clara County Office of Emergency Services. The Santa Clara Valley Water District (SCVWD) serves a total of thirteen retail water suppliers within Santa Clara County and has worked closely with these agencies to develop an adequate and reliable supply of water for the Santa Clara County. Table 1. lists the retail water suppliers served by the Santa Clara Valley Water District.

Table 1.
Santa Clara County Water Retailers
(M&I Only)

Name	1991 Demand * (Acre feet)
California Water Service Company	9,642
City of Cupertino	2,191
City of Gilroy	4,793
Great Oaks Water Company	8,636
City of Milpitas	7,895
City of Mountain View	10,384
City of Morgan Hill	4,051
City of Palo Alto	10,573
Purissima Hills Water District	1,121
City of San Jose	10,400
San Jose Water Company	104,252
City of Santa Clara	20,077
City of Sunnyvale	20,585
Total	214,600

* Demand through 11/31/91

District water supply plans are routinely developed in cooperation with local retail agencies and input is received through a variety of means including a local Water Commission and various advisory committees made up of elected officials and retail water managers.

2. WATER DEMAND

The historical demand for water in Santa Clara County, as shown in Figure 1. was discussed in depth in Chapter 2 of the Urban Water Management Plan (UWMP). As a result of the current drought period which California is experiencing, water use has declined by as much as 30% from pre-drought levels as shown in Figure 2.

It is assumed that the "worst-case scenario" for water demand for the next three years would be to return to demand levels comparable to those experienced prior to the current drought. Estimates of the projected water demand for Santa Clara County were provided in the UWMP as shown in Figure 3. Maximum demand estimates for the next 12, 24 and 36 month periods are as follows:

Table 2.

Santa Clara County
Projected Maximum Water Demand

1992 Estimated Maximum Demand	410,000 Acre Feet
1993 Estimated Maximum Demand	414,000 Acre Feet
1994 Estimated Maximum Demand	418,000 Acre Feet

These estimates assume a return to the pre-drought per capita use of 245 gal/person/day and continuing increases in population within Santa Clara County as shown in Figure 4.

Actual projected demands are predicted to fall below these figures even if water supply levels return to normal during the next several years. This is a result of the expected carry-over effect of the reduced consumption patterns established by county residents during the drought and implementation of the Best Management Practices for long term water conservation.

Historic Water Use
Santa Clara Valley Zone W-2

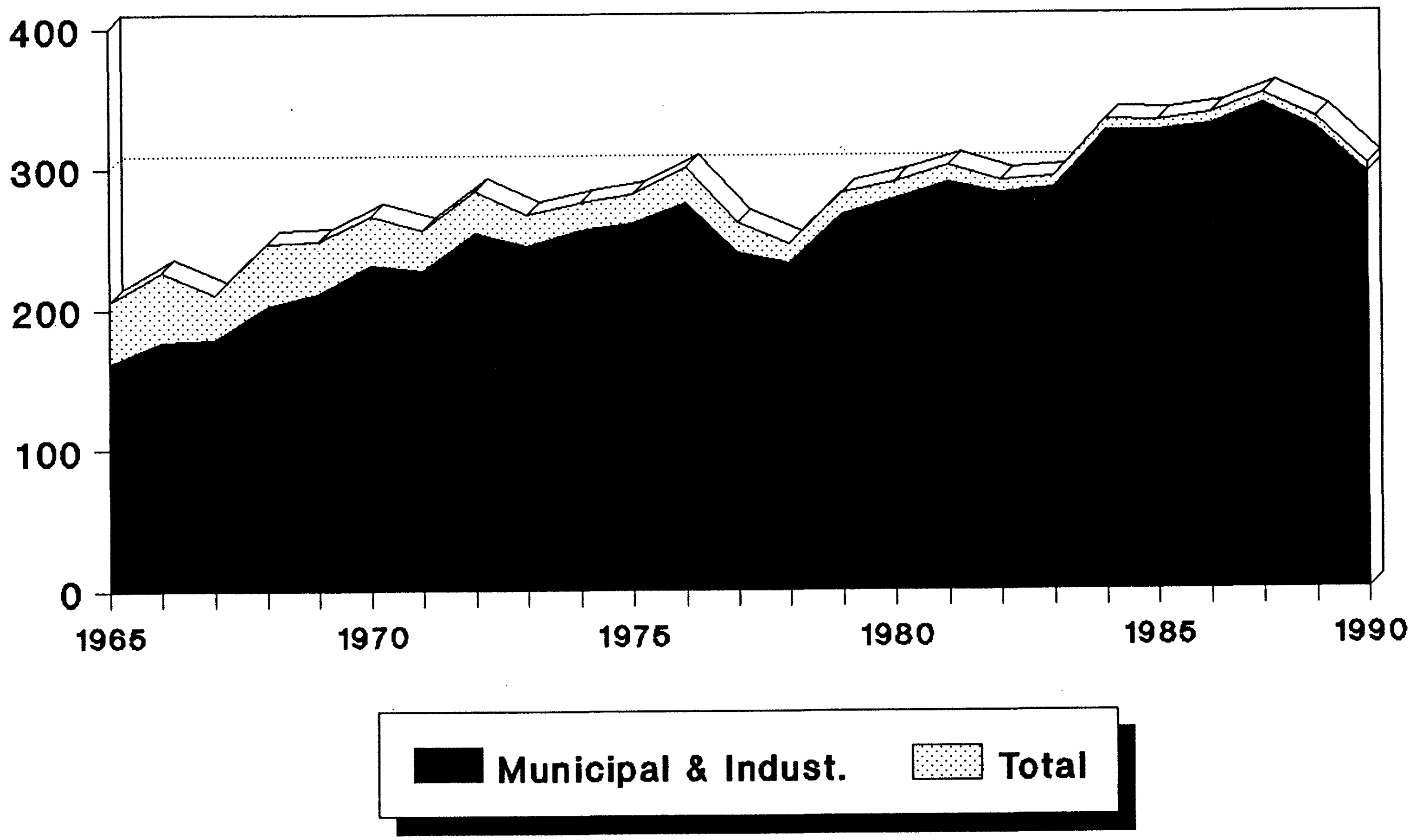


Figure 1

WATER SAVINGS BY RETAILER

AS COMPARED TO 1987 USE

NORTH COUNTY RETAILERS

		% SAVINGS YEAR TO DATE	DECEMBER SAVINGS	ORDINANCE IN EFFECT
1	AGNEW	42.0%	4.0%	YES
2	CAL WATER	31.1%	1.7%	YES
3	CUPERTINO	31.1%	-7.1%	YES
4	GREAT OAKS	27.7%	9.5%	YES
5	MILPITAS	16.4%	0.2%	YES
6	MOUNTAIN VIEW	29.7%	10.3%	YES
7	MOFFETT	36.6%	30.3%	YES
8	PALO ALTO	35.9%	14.2%	YES
9	PURISSIMA	35.8%	0.5%	YES
10	SAN JOSE CITY	20.4%	-4.3%	YES
11	SAN JOSE WTR CO	27.6%	8.7%	YES
12	SANTA CLARA	34.3%	25.0%	YES
13	STANFORD	22.0%	8.0%	YES
14	SUNNYVALE	28.3%	11.1%	YES
	TOTAL	28.5%	10.0%	YEAR TO DATE 25% GOAL
	REDUCTION IN GROUNDWATER PUMPING	46.8%	12.3%	

SOUTH COUNTY RETAILERS

		% SAVINGS YEAR TO DATE	DECEMBER SAVINGS	ORDINANCE IN EFFECT
1	GILROY	17.1%	-13.0%	YES
2	MORGAN HILL	32.8%	22.8%	YES
	TOTAL	25.1%	7.2%	YEAR TO DATE 25% GOAL

ALL RETAILERS

	% SAVINGS YEAR TO DATE	DECEMBER SAVINGS	YEAR TO DATE GOAL
TOTAL	28.4%	9.9%	25%

Figure 2

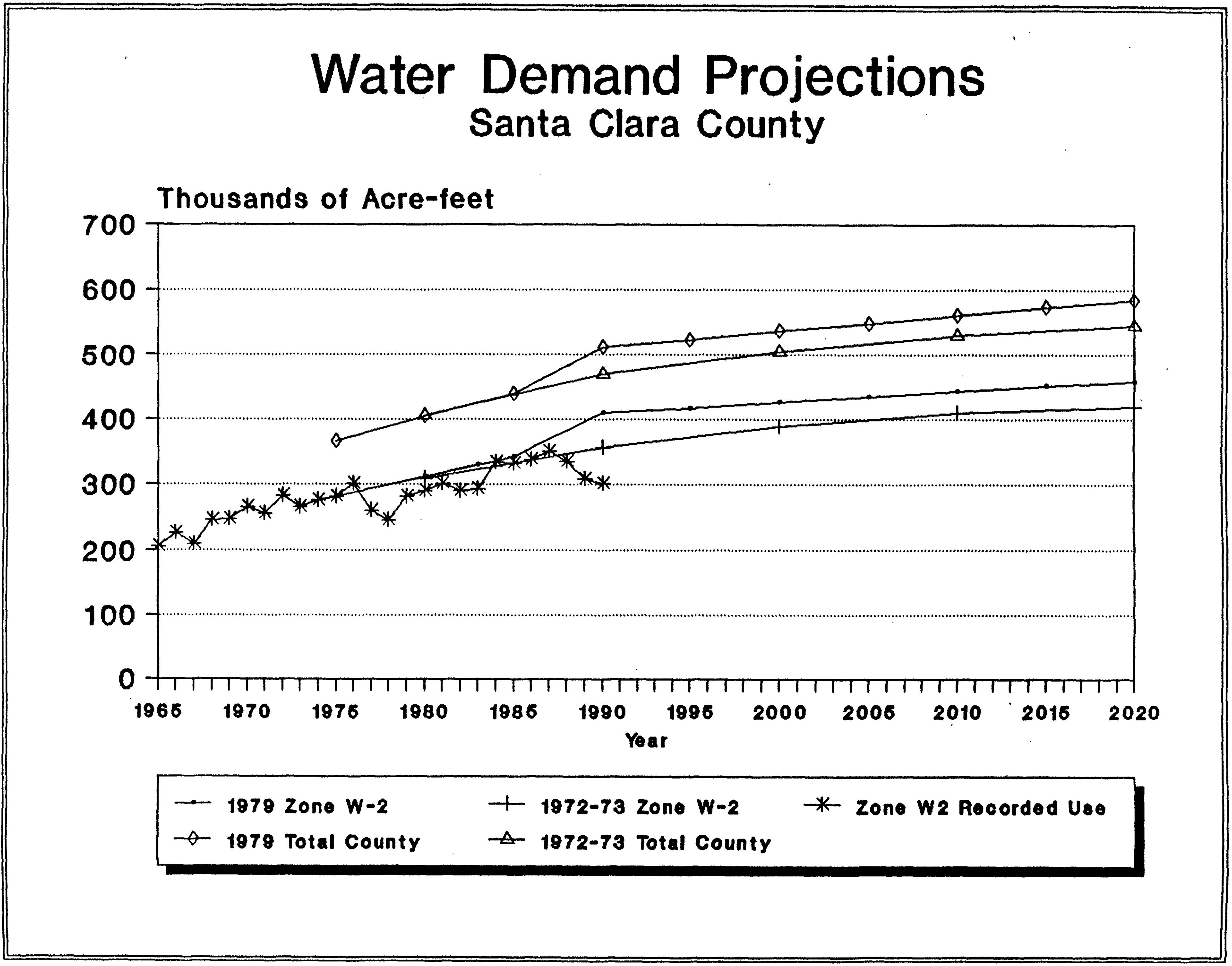
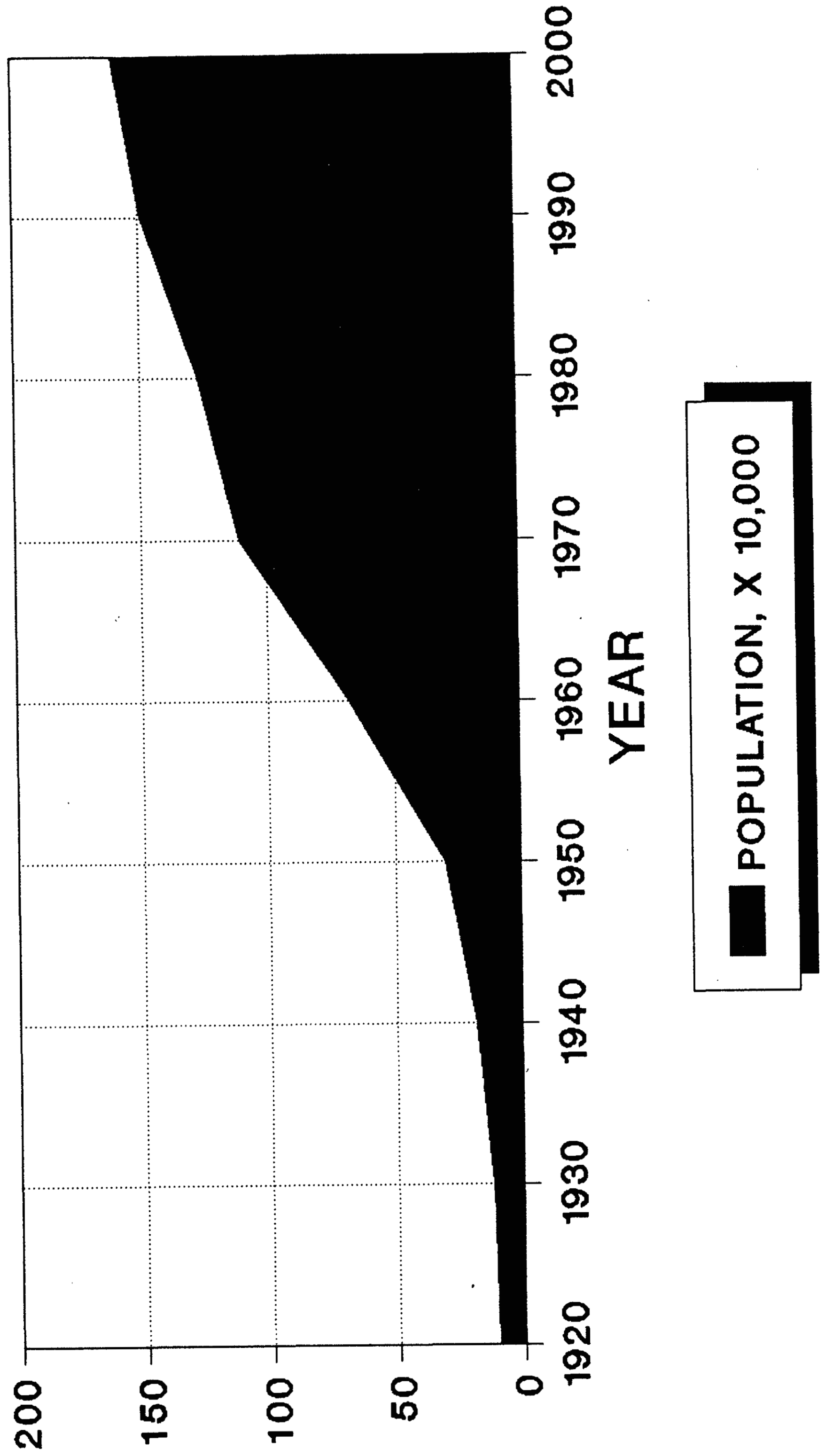

Water Demand Projections
Santa Clara County
Thousands of Acre-feet
700
600
500
400
300
200
100
0
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Year
1979 Zone W-2
1972-73 Zone W-2
Zone W2 Recorded Use
1979 Total County
1972-73 Total County

Figure 3

TOTAL POPULATION

SANTA CLARA COUNTY



November 1990

3. WATER SUPPLIES

As discussed in depth in Chapter 3 of the Urban Water Management Plan (UWMP), Santa Clara County receives water from a variety of sources including local surface and groundwater (Table 3.), the State Water Project, the Central Valley Water Project and the Hetch-Hetchy Aqueduct. As a result of the drought, local supplies have been reduced and the District has received only partial entitlement from its imported sources. In response to these circumstances, the District has instituted an aggressive water conservation program and has sought to augment imported sources of water with additional water transfers from Yuba County, Placer County, and the State Water Bank.

In response to the current water supply shortage the District has evaluated a number of possible water supply scenarios for the coming three years and has developed the analysis presented in Table 4. The water supply conditions shown are considered to represent the "worst-case scenario" for 1992-94. The percentages represent currently projected available supplies for Santa Clara County. The local supply represents minimum available from in County surface and groundwater sources.

The minimum water supply available at the end of 12, 24 and 36 months would reflect reductions in imported sources of similar or increased severity to the past year. Additionally, local supplies would continue to decrease. The District would respond to this situation by continuing to pursue aggressive demand reduction programs. Additionally, water transfers would be sought to help alleviate the supply shortfall. The supply deficit would be compensated for by increased conservation levels (up to 50%), additional transfers or a combination of both.

Table 3.
Normal Local Supply

Santa Clara Subbasin:	Reservoir & Major Streams	58,000 ac/ft
	Natural Recharge	60,000 ac/ft
Coyote & LLagas Subbasins:	Reservoir & Major Streams	25,000 ac/ft
	Natural Recharge	44,000 ac/ft
Total Local Supply		187,000 ac/ft

Table 4.

Santa Clara Valley Water District
Worst-Case Water Supply Availability

21-Jan

(Thousands of Acre-Feet)

SUPPLY	(Full Entitlement)		1992		1993		1994
San Jose Water Company			3		3		3
Hetch-Hetchy	(76,000 AF)	50%	38	50%	38	50%	38
State Water Project	(96,000 AF)	20%	19	20%	19	20%	19
San Felipe Project	(152,000 AF)	50%	76	50%	76	50%	76
Local Supply:							
Santa Clara	Reservoir & Major Streams		28		28		28
Subbasin:	Natural Recharge		30		30		30
Coyote & Llagas	Reservoir & Major Streams		10		10		10
Subbasins:	Natural Recharge		13		13		13
Total Supply			217		217		217
DEMAND							
Full Service Demand			410		414		418
Unserved Demand			193		197		201
WATER SUPPLY OPTIONS							
CONSERVATION PROGRAMS (1987 Base Year)			25%		25%		25%
Effective Annual Conservation Rate	North County		87		87		87
Computed as a Percentage of 1987	South County		11		11		11
Base Year Usage of 393,000 AF:	Total County		98		98		98
WITHDRAWAL FROM GROUNDWATER STORAGE							
Santa Clara Subbasin			61		31		16
Coyote/Llagas Subbasins			7		7		7
Total County Storage			68		38		23
WATER TRANSFERS							
Total Transfers			27		61		80
SANTA CLARA SUBBASIN END-OF-YEAR STORAGE			61		30		15
1991 End-Of-Year Storage: 122,000 AF							

4. STAGES OF ACTION

The District has drawn from it's experience in responding to the current drought to develop a staged response plan to water supply shortages. This plan ties action stages to specific reductions in supply. The plan includes both voluntary and mandatory components and addresses shortages of up to 50% of full supply.

Table 5.

Santa Clara Valley Water District
Rationing Stages and Reduction Goals

Shortage	Stage	Demand Reduction Goal	Program
Up to 15%	Stage 1	Up to 15% Reduction	Voluntary
15-25%	Stage 2	25% Reduction	Mandatory
25-35%	Stage 3	35% Reduction	Mandatory
35-50%	Stage 4	50% Reduction	Mandatory

Description Of Stages

Stage 1	Reduction in overall supply (any source) which results in an unserved demand of up to 15% of total projected demand.
Stage 2	Significant reduction in one or more sources of supply which results in an unserved demand of up to 25% of the total projected demand.
Stage 3	Serious reduction in two or more sources of supply which results in an unserved demand of up to 35% of the total projected demand.
Stage 4	Critical reduction in all imported sources and serious shortage in local ground water basins which result in an unserved demand of up to 50% of the total projected demand.

As a wholesale supplier of water, the District must work closely with local retail water agencies to implement any action stages. As part of this cooperative effort, the District relies on these retail agencies to determine priorities for use of available water.

Water Supply Shortage Management Plan

Stage 1. **10% Voluntary Program**

- Institute voluntary water use reduction goals and water use prohibitions.
- Coordinate water conservation program with local retail agencies and municipalities.
- Initiate Public Information Program.
- Offer water conservation kits to the public.
- Prepare and distribute water conservation literature through local retail water suppliers and other agencies.
- Initiate a media campaign including news releases and an advertising campaign.

Stage 2. **25% Mandatory Program**

- Continue and intensify all activities undertaken during Stage 1.
- Institute mandatory water use reduction program.
- Institute additional water use prohibitions.
- Promote the installation of water saving devices such as ULF Toilets and showerheads.
- Seek to acquire water transfers to augment sources of imported water.
- Enhance water supply system operation to increase efficiency.
- Monitor and report on monthly production to ensure compliance with necessary reductions.

Stage 3. **35% Mandatory Program**

- Continue and intensify all activities undertaken during Stages 1-2.
- Institute additional water use prohibitions.
- Coordinate with local agencies to defer installation of all new landscape.

Stage 3 (continued)

- Lobby local agencies to enforce ban on use of water from hydrants or other unmetered sources.
- Monitor and report on weekly production to ensure compliance with necessary reductions.

Stage 4. **50% Mandatory Program**

- Continue and intensify all activities undertaken in Stages 1-3.
- Implement inclining rate for ground water pumping.
- Institute a ban on all irrigation.

5. MANDATORY PROVISIONS

Because of its status as a special district the Santa Clara Valley Water District does not have the authority to adopt ordinances or impose mandatory provisions restricting the wasteful use of water. However, the District has developed model water use prohibitions and restrictions (Appendix B.) and has worked closely with local retail agencies to encourage their adoption.

Additionally, the District has maintained a listing of all water use prohibitions adopted within Santa Clara County. A summary of these prohibitions and a matrix of retail agencies employing them have been included (Appendix C.).

6. CONSUMPTION LIMITS

As the wholesale supplier of water for Santa Clara County, the Santa Clara Valley Water District has no authority to set or enforce consumption limits at the retail level. As a result, this Contingency Plan does not include per capita allotments, inclining-block rates, penalties, or incentives for conservation for any customer class. The development of such mechanisms is within the purview of the local retail water agencies.

At the wholesale level, the District works with local retail water suppliers to establish groundwater production figures. By working closely with the retail water agencies, the District has effectively set and achieved up to 25% mandatory rationing levels.

7. PENALTIES OR CHARGES FOR EXCESSIVE USE

The District Act (Section 26.5) was amended in 1989 to allow the District to develop overproduction charges for groundwater pumping. This provision allows the District the flexibility to provide any necessary incentive which may be required to achieve cooperation on the part of local retail water suppliers. Overproduction charges for fiscal year 1991/1992 range from $276-780/AF and are typically 3X the basic user fee for groundwater pumping.

8. ANALYSIS OF REVENUE AND EXPENDITURE IMPACTS

Due to the water shortages of the past five years, presently projected revenues and expenditures already reflect reduced revenue water charge. A summary of the Districts Water Utility Revenues and Expenditures is included (Appendix D.).

District water sales during the last year of normal demand, fiscal year 1987-88, and the projected results of 25, 35, and 50% reductions are shown in Table 6. District water sales are different from total water use in the County because Hetch-Hetchy and other independent water sources are not included.

Table 6.
District Water Sales (AFY)

	Normal(87–88)	25%	35%	50%
Urban	292,000	219,000	190800	146,000
Agricultural	34,000	25,000	22,000	17,000
Total	326,000	244,000	212,000	163,000

The District's initial financial response to shortage is to use reserve funds. A large portion of the District's costs are not directly related to the quantity of water delivered. Expenses are increased during periods of drought by additional programs, staff time and water purchases. After reserve funds are depleted, current revenues need to cover current expenses. Therefore, unit price increases must be implemented to offset the impacts of lower water sales and higher expenses. Finally, expenses are deferred when feasible. The combined impacts of all these factors can be seen in Appendix D. Table 7. shows an example of the impacts of reduced demand and the resulting rate increases necessary to meet unchanged expenses.

Table 7.
Financial Impacts

Water Revenue	Percent Reduction	AF Sold	Unit Price
$60,000,000	Normal(87–88)	292,000	$205
$60,000,000	25%	219,000	$274
$60,000,000	35%	190,000	$316
$60,000,000	50%	146,000	$411

9. IMPLEMENTATION OF THE PLAN

A copy of a draft water shortage contingency resolution has been included in Appendix E.

10. WATER USE MONITORING

A detailed description of normal District water supply monitoring activities is provided in Chapter 3. of the Urban Water Management Plan. In response to the current drought, the District is compiling a comprehensive water use report on a monthly basis. The November 1991 report is included in Appendix F. Water use monitoring during periods of shortage is coordinated through the District's Water Supply Department and is the responsibility of the Technical Support Division Engineer.

APPENDIX A

CHAPTER ____

An act to amend Sections 10620, 10621, 10631, and 10652 of, and to add Section 10656 to, the Water Code, relating to water.

LEGISLATIVE COUNSEL'S DIGEST

AB 11, Filante. Urban water management plans.

(1) Existing law requires every urban water supplier serving water directly to customers to, not later than December 31, 1985, prepare and adopt an urban water management plan. Existing law authorizes an urban water supplier indirectly providing water to customers to adopt an urban water management plan or to participate in urban water management planning.

This bill would, instead, require every urban water supplier, whether serving water directly or indirectly to customers, to prepare and adopt an urban water management plan, as prescribed.

(2) Existing law requires the urban water management plan to include a prescribed description of water supply deficiencies.

This bill would delete that provision and would require the urban water management plan to include an urban water shortage contingency plan, as specified. The bill would require each urban water supplier to coordinate the preparation of its urban water shortage contingency plan with other urban water suppliers and public agencies in the area to the extent practicable. The bill would require each urban water supplier, not later than January 31, 1992, to prepare, adopt, and submit to the Department of Water Resources an amendment to its urban water management plan which meets the requirements relating to the preparation of the urban water shortage contingency plan. The bill would make an urban water supplier that does not submit the amendment by that date ineligible to receive drought assistance from the state until the urban water management plan is submitted, as prescribed.

(3) Existing law exempts the preparation and adoption of urban water management plans from the California Environmental Quality Act.

This bill would exempt the implementation of urban water shortage contingency plans from that act. The bill would provide that the exemption provisions do not exempt specified projects from the requirements of that act.

The people of the State of California do enact as follows:

SECTION 1. Section 10620 of the Water Code is amended to read:

10620. (a) Every urban water supplier shall prepare and adopt an urban water management plan in the manner set forth in Article 3 (commencing with Section 10640).

(b) Every person that becomes an urban water supplier after December 31, 1984, shall adopt an urban water management plan within one year after it has become an urban water supplier.

(c) An urban water supplier indirectly providing water shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, or to their customers, without the consent of those suppliers or public agencies.

(d) (1) An urban water supplier may satisfy the requirements of this part by participation in areawide, regional, watershed, or basinwide urban water management planning where those plans will reduce preparation costs and contribute to the achievement of conservation and efficient water use.

(2) Each urban water supplier shall coordinate the preparation of its urban water shortage contingency plan with other urban water suppliers and public agencies in the area, to the extent practicable.

(e) The urban water supplier may prepare the plan with its own staff, by contract, or in cooperation with other governmental agencies.

SEC. 2. Section 10621 of the Water Code is amended to read:

10621. (a) Each urban water supplier shall, not later than January 31, 1992, prepare, adopt, and submit to the department an amendment to its urban water management plan which meets the requirements of subdivision (e) of Section 10631.

(b) Each urban water supplier shall periodically review its plan at least once every five years. After the review, it shall make any amendments or changes to its plan which are indicated by the review. Amendments or changes in its plan shall be adopted and filed in the manner set forth in Article 3 (commencing with Section 10640).

SEC. 3. Section 10631 of the Water Code is amended to read:

10631. A plan shall do all of the following:

(a) Include an estimate of past, current, and projected water use and, to the extent records are available, segregate those uses between residential, industrial, commercial, and governmental uses.

(b) Identify conservation measures currently adopted and being practiced.

(c) Describe alternative conservation measures, including, but not limited to, consumer education, metering, water saving fixtures and appliances, lawn and garden irrigation techniques, and low water use landscaping, which would improve the efficiency of water use with an evaluation of their costs and their environmental and other significant impacts.

(d) Provide a schedule of implementation for proposed actions as indicated by the plan.

(e) Provide an urban water shortage contingency plan which includes all of the following elements which are within the authority of the urban water supplier:

(1) Past, current, and projected water use and, to the extent records are available, a breakdown of those uses on the basis of residential single family, residential multifamily, industrial, commercial, governmental, and agricultural use.

(2) An estimate of the minimum water supply available at the end of 12, 24, and 36 months, assuming the worst case water supply shortages.

(3) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to a 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.

(4) Mandatory provisions to reduce water use which include prohibitions against specific wasteful practices, such as gutter flooding.

(5) Consumption limits in the most restrictive stages. Each urban water supplier may use any type of consumption limit in its water shortage contingency plan that would reduce water use and is appropriate for its area. Examples of consumption limits that may be used include, but are not limited to, percentage reductions in water allotments, per capita allocations, an increasing block rate schedule for high usage of water with incentives for conservation, or restrictions on specific uses.

(6) Penalties or charges for excessive use.

(7) An analysis of the impacts of the plan on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.

(8) A draft water shortage contingency resolution or ordinance to carry out the urban water shortage contingency plan.

(9) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency plan.

(f) To the extent feasible, describe the method which will be used to evaluate the effectiveness of each conservation measure implemented under the plan.

(g) Describe the steps which would be necessary to implement any proposed actions in the plan.

SEC. 4. Section 10652 of the Water Code is amended to read:

10652. The California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) does not apply to the preparation and adoption of plans pursuant to this part or

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to the implementation of subdivision (e) of Section 10631. Nothing in this part shall be interpreted as exempting from the California Environmental Quality Act any project that would significantly affect water supplies for fish and wildlife, or any project for implementation of the plan, other than projects implementing subdivision (e) of Section 10631, or any project for expanded or additional water supplies.

SEC. 5. Section 10656 is added to the Water Code, to read:

10656. An urban water supplier that does not submit an amendment to its urban water management plan pursuant to subdivision (a) of Section 10621 to the department by January 31, 1992, is ineligible to receive drought assistance from the state until the urban water management plan is submitted pursuant to Article 3 (commencing with Section 10640) of Chapter 3.

Approved October 13, 1991

Pete Wilson
Governor

Assembly Bill No. 11

Passed the Assembly September 13, 1991

Chief Clerk of the Assembly

Passed the Senate September 11, 1991

Secretary of the Senate

This bill was received by the Governor this 27th day of September, 1991, at 1:40 o'clock P M.

Margie Gaffney
Private Secretary of the Governor

APPENDIX B

agenda-1c.

Santa Clara Valley Water District

MEMORANDUM

FC 14A (04-11-88)

TO: Board of Directors

FROM: John T. O'Halloran

SUBJECT: Water Retailer's Water Supply Subcommittee Meeting

DATE: March 17, 1989

At Wednesday's meeting (3/15), the retailers reviewed the water supply and use charts provided to the Board on Tuesday, 3/14. After considerable review and discussion, they recommended:

1. That the District Board consider a 25% reduction in water use from 1987 figures, rather than a 45% reduction due to availability of additional imported water.
2. That the cities adopt ordinances prohibiting Items 1 thru 8 and additional items 4 and 8 on the attached list.
3. That the water agencies and the District conduct extensive public information programs to inform the public of the need to conserve and methods to accomplish conservation.

John T O'Halloran

General Manager

Attachment

cc: R. Esau
S. Pino

JTO:scs

Appendix B

II. Model Drought Ordinance Guidelines

(Approved by the Water Supply Subcommittee of Retail Water Agencies.)

Water Uses Prohibited:

1. Water waste, including but not limited to, flooding or runoff on sidewalks, streets or gutters.
2. Cleaning of sidewalks, driveways, patios, parking lots, or other paved or hard-surfaced areas.
3. Use of water through a hose for washing cars, buses, boats, trailers, or other vehicles without a positive automatic shutdown valve on the outlet end of the hose.
4. Operation of decorative fountains.
5. Use of water for construction purposes, such as consolidation of backfill, unless no other source of water or other method can be used.
6. Water waste due to broken or defective plumbing, sprinkler, watering or irrigation systems.
7. Outside landscape irrigation during daylight hours.
8. Restaurant water service unless upon request.

April 30, 1991

IDENTICAL LETTER SENT TO 15 MAYORS OF SANTA CLARA COUNTY CITIES

Dear :

On April 2, the District's Board of Directors adopted Additional Water Use Prohibitions for 1991 as recommended by the Santa Clara Valley Water Commission and the County's retail water agencies, in order to achieve a countywide 25 percent (25%) annual water use reduction goal for 1991. These Recommended Additional Prohibitions were sent to you on April 8 with a request that they be incorporated into your city's water conservation procedures (see Attachment A).

On April 16, the District's Landscape Advisory Committee suggested modifications to these Additional Water Use Prohibitions for 1991. Although these changes were not formally adopted by the District's Board, they are conveyed to you for your consideration (see Attachment B).

Again, I would like to thank you and your citizens for your efforts in achieving the water use reduction goals during the past two years and for your cooperation in managing the currently limited water resources in Santa Clara County.

Sincerely,

Robert W. Gross,
Chairman/Board of Directors

Enclosures (2)

cc: City Manager (w/enclosures)
Ms. Sally Reed (w/enclosures)
County Executive, County of Santa Clara

bc: Board of Directors, SCVWD
SC Valley Water Commission (#34)
Water Supply SubCom.,SCVWD(#300)
R. Esau, S. Pino, R. Smith, L. Cournoyer, J. Fiedler, J. Sutcliffe, T. Morse, A. Bennetti

PMS:cw:0429f

SANTA CLARA VALLEY WATER DISTRICT
RECOMMENDED ADDITIONAL POTABLE WATER USE PROHIBITIONS FOR 1991
AS ADOPTED BY THE BOARD OF DIRECTORS ON APRIL 2, 1991

1. No draining and/or refilling of swimming pools except for threat to health or safety. Topping off of pools to make up for evaporation losses is allowed.

2. No hydrant flushing, except where required for public health or safety.

3. Operation of sprinkler systems to irrigate landscaping from December through March is not necessary when rainfall approaches normal levels. Check plants on covered areas periodically.

4. No potable groundwater to be used from private wells for dust control consolidation of backfill or for the sole purpose of irrigating landscaping.

5. Watering at golf courses shall be limited to tee area, landing areas, and greens.

6. No new single-pass cooling systems. Existing single-pass systems will require approval by regulating agency to continue operating.

7. Large water users will be required to perform water audits especially of automatic sprinkler use at their facilities.

8. New installation of plants, shrubs, trees, lawns, or other growing things in new development for which a city permit is required will conform to the landscape guidelines developed by the Landscape Advisory Committee and adopted by the Board of Directors.

Attachment B

SANTA CLARA VALLEY WATER DISTRICT
LANDSCAPE ADVISORY COMMITTEE
RECOMMENDED ADDITIONAL POTABLE WATER USE PROHIBITIONS FOR 1991

1. No draining and/or refilling of swimming pools except for threat to health or safety. Topping off of pools to make up for evaporation losses is allowed.

2. No hydrant flushing, except where required for public health or safety.

3. No operation of sprinkler systems to irrigate landscaping from December through March is not necessary when rainfall approaches normal levels. Check plants on covered aarea periodically.

4. No potable groundwater to be used from private wells for dust control consolidation of backfill or for the sole purpose of irrigating landscaping.

5. No new single-pass cooling systems. Existing single-pass systems will require approval by regulating agency to continue operating.

6. Large water users will be required to perform water audits especially of automatic sprinkler use at their facilities.

7. New installation of plants, shrubs, trees, lawns, or other growing things in new development or renovation work should conform to the landscape guidelines developed by the Landscape Advisory Committee and adopted by the Board of Directors.

APPENDIX C

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SUMMARY: POTABLE WATER USES PROHIBITED AND RESTRICTED

CITIES/COUNTY/RETAILERS

		PROHIBITIONS AND RESTRICTIONS	1 Camp.	2 Sarat.	3 Mo.Se	4 Lo.Ga	5 L.Al.	6 LA.H	7 Cuper	8 Mt.Vw.	9 Pa.Al.	10 Milpit.	11 Sunny	12 San Jose	13 Gilroy	14 Mo.Hill	15 Sa.Cl	16 SCCo.	17 SJW.	18 Cal.Wat.	19 Gr.Oak	20 Pur.Hill
•	1	DEFECTIVE PLUMBING.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
•	2	GUTTER FLOODING	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
•	3	VEHICLE WASHING UNLESS SHUT-OFF VALVE/RECYCLED/RECLAIMED	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
•	4	CLEANING SIDEWALKS, BUILDINGS, HARD SURFACED AREA UNLESS EQUIPPED WITH AUTO SHUT-OFF VALVE OR FOR HEALTH REASONS.	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
	5	WASHING EXTERIOR OF DWELLINGS, BUILDINGS, STRUCTURES, EXCEPT FOR WINDOW CLEANING OR FOR PAINTING STRUCTURES.									X	X	X	X	X							
•	6	DECORATIVE FOUNTAINS EXCEPT FOR MAINTENANCE PURPOSES.	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
•	7	CONSTRUCTION PURPOSES UNLESS NO OTHER METHOD OR SOURCE ie. RECLAIMED OR RECYCLED WATER AVAILABLE.	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
	8	WATER SERVICE CONNECTIONS RE. NEW CONSTRUCTION UNLESS WATER SAVING DEVICES USED IN INTERIOR PLUMBING.										X										
•	9	RESTAURANT WATER SERVICE UNLESS UPON REQUEST.	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
	10	POSTING OF NOTICE OF DROUGHT CONDITIONS IN HOTELS, MOTELS RESTAURANTS, RESTROOMS.									X			X								
••	11	HYDRANT FLUSHING EXCEPT WHERE REQUIRED FOR PUBLIC HEALTH AND SAFETY.	X	X	X	X	X		X	X			X	X	X	X	X	X	X	X	X	
••	12	NEW SINGLE-PASS COOLING SYSTEM. EXISTING SINGLE-PASS SYSTEMS TO REQUIRE APPROVAL FROM REGULATORY AGENCY.	X		X				X	X		X	X			X	X	X				
	13	BUILDING, GRADING OR PLUMBING PERMITS SHALL BE ISSUED FOR DRILLING, INSTALLATION,CONNECTION,OR OPERATION OF A NEW WATER WELL OR THE REACTIVATION OF A INACTIVE WELL.		X																		
••	14	POTABLE GROUNDWATER EXTRACTED FROM PRIVATE WELLS FOR DUST CONTROL, CONSOLIDATION OF BACKFILL OR IRRIG. OF LANDSCAPING.							X				X			X	X					
	15	USE IN EXCESS OF ALLOCATION.				X				X		X							X	X		
••	16	NEW INSTALLATION OF PLANTS, SHRUBS, TREES, LAWNS, SHALL COMPLY WITH SCVWD/CITY/COUNTY ORDINANCES, RESOLUTIONS, PERMITS, LANDSCAPE POLICIES AND GUIDELINES.		X						X	X	X	X		X	X	X					
•	17	LANDSCAPE WATERING HRS./PACIFIC DAYLIGHT/ STANDARD TIME.	X	X	X				X	X	X		X	X	X	X	X	X				
••	18	GOLF COURSE WATERING LIMITED TO TEES, GREENS,LANDING AREAS.											X			X	X				X	
••	19	OPERATING SPRINKLER SYSTEMS FOR LANDSCAPING FROM DEC TO MARCH WHEN RAINFALL APPROACHES NORMAL LEVELS.														X						
	20	USE OF NON-DROUGHT TOLERANT PLANTS FOR LANDSCAPING.						X		X		X	X		X							
••	21	DRAIN,REFILL SWIMMING POOL EXCEPT HEALTH/SAFETY/TOPPING OFF.							X	X		X	X		X	X	X					X
	22	CONSTRUCTION OF NEW SWIMMING POOLS,PONDS,LAGOONS, UNLESS WATER USED IS OUTSIDE THE DRGT.AREA OR HEALTH/SAFETY/MAINT.									X	X					X					
	23	NON-POTABLE, RECLAIMED WATER NOT IN COMPLIANCE WITH FEDERAL, STATE OR CITY REGULATIONS.									X		X									
••	24	LARGE WATER-USERS WILL BE REQUIRED TO PERFORM WATER AUDITS.											X		X	X	X					
	25	GENERAL WATER WASTE, USE WATER SAVING METHODS WHEN POSSIBLE.						X														
	26	USE OF WATER FOR MORE THAN FOR MIN.LNDSCPE. RE.NEW CONSTR.								X									X	X	X	
	27	NO NEW LANDSCAPING OF PUBLIC FACILITIES THROUGH 1992.										X		X								X
	28	USE OF WATER FROM ANY UNMETERED SOURCE, SUCH AS FIRE HYDRANTS OR OTHER DISTRICT FACILITIES																				X

• PROHIBITIONS RECOMMENDED/ADOPTED BY SCVWD & WATER RETAILERS ON 3/22/89

•• RECOMMENDED ADDITIONAL POTABLE WATER USE PROHIBITIONS FOR 1991 ADOPTED BY SCVWD ON APRIL 2, 1991

June 26, 1991
TIME: 3:20 p.m.

APPENDIX D

the Financial Picture

	Actual 1987–88	Actual 1988–89	Actual 1989–90	Budget 1990–91	Projected 1991–92
Revenues					
Bond Sales, Loans, Grants	$0	$0	$90,000	$0	$10,000,000
Property Taxes	$14,842,000	$15,708,000	$15,079,000	$17,325,000	$18,014,000
Interest	$8,177,000	$7,104,000	$7,232,000	$4,683,000	$3,541,000
Groundwater Charges	$16,615,000	$15,838,000	$10,970,000	$16,165,000	$22,992,000
Surface Water Charges	$166,000	$188,000	$150,000	$63,000	$295,000
Reclaimed Water	$0	$0	$1,000	$10,000	$0
Treated Water Sales	$17,568,000	$20,112,000	$22,798,000	$25,670,000	$34,700,000
Miscellaneous	$1,998,000	$1,347,000	$2,723,000	$2,534,000	$2,389,000
Total Revenues	$59,366,000	$60,297,000	$59,043,000	$66,450,000	$91,931,000
Expenditures					
New Facility Construction	$43,299,000	$19,295,000	$17,432,000	$13,621,000	$10,262,000
Administration	$1,731,000	$2,375,000	$2,346,000	$3,744,000	$4,190,000
Planning	$1,890,000	$2,375,000	$3,411,000	$10,079,000	$7,309,000
Construction, General	$1,695,000	$1,639,000	$2,205,000	$5,794,000	$5,473,000
Maintenance	$4,343,000	$5,186,000	$7,952,000	$7,039,000	$7,322,000
Operations	$10,465,000	$12,201,000	$13,837,000	$16,782,000	$16,714,000
Water Purchase	$12,647,000	$13,884,000	$17,163,000	$17,019,000	$22,148,000
Debt Service	$11,137,000	$11,188,000	$11,192,000	$11,138,000	$11,148,000
Total Expenditures	$87,207,000	$68,143,000	$75,538,000	$85,216,000	$84,566,000
Balances					
Encumbrances	$0	$0	$0	$3,325,000	$12,495,000
In-County Distribution System	$79,441,000	$70,865,000	$53,737,000	$24,540,000	$9,090,000
San Felipe O&M Reserve	$200,000	$400,000	$600,000	$801,000	$1,002,000
Contingency Appropriation	$34,000	$450,000	$450,000	$1,000,000	$4,915,000
Revenue Bond Reserve	$8,917,000	$8,917,000	$8,917,000	$8,917,000	$9,946,000
Replacement Appropriation	$3,500,000	$3,500,000	$3,932,000	$4,187,000	$4,187,000
Bureau Replacement Appropriation	$0	$0	$0	$6,100,000	$14,600,000
Total	**$92,092,000**	**$84,132,000**	**$67,636,000**	**$48,870,000**	**$56,235,000**

APPENDIX E

DRAFT

RESOLUTION NO.

ADOPTING AND AUTHORIZING THE FILING AND IMPLEMENTATION OF THE SANTA CLARA VALLEY WATER DISTRICT WATER SHORTAGE CONTINGENCY PLAN

WHEREAS, the California Legislature amended Water Code Sections 10620, 10621, 10631 and 10652, and added to Section 10656 during the First Extraordinary Session of 1991-1992 such that each urban water supplier shall, not latter than January 31, 1992, prepare, adopt, and submit to the California Department of Water Resources an amendment to its urban water management plan, the primary objetive of which is to plan for water supply shortages;and

WHEREAS, the Santa Clara Valley Water District did prepare and file an Urban Water Management Plan with the California Department of Water Resources in December of 1990;and

WHEREAS, the Santa Clara Valley Water District indirectly provides water to over 1,000,000 people in Santa Clara County; and

WHEREAS, there have now been five consecutive years of drought; and

WHEREAS, local water storage reserves within the Santa Clara Valley Water District have been severely depleted by the drought; and

WHEREAS, the Santa Clara Valley Water District has prepared and circulated for public review an updated Draft Water Shortage Contingency Plan; and

WHEREAS, a duly noticed public hearing regarding said Draft Plan was held by the District Board of Directors on January 21, 1992;

NOW, THEREFORE BE IT RESOLVED by the Santa Clara Valley Water District Board of Directors as follows:

1. The Water Shortage Contingency Plan be finalized as directed, adopted and ordered filed with the Clerk of the Board;

2. The General Manager is hereby authorized and directed to file the final Plan with the California Department of Water Resources by January 31, 1992 in accordance with the Act as amended;

Adopting and Authorizing the Filing and Implementation of the Santa Clara Valley Water District Water Shortage Contingency Plan.

PASSED AND ADPOTED THIS 21st day of January 1992, by the following vote:

AYES:

NOES:

ABSENT:

SANTA CLARA VALLEY WATER DISTRICT

By:______________________________
Chairman of the Board of Directors

APPENDIX F

SANTA CLARA COUNTY
DROUGHT STATUS REPORT

DECEMBER 1991

PREPARED BY

SANTA CLARA VALLEY WATER DISTRICT
TECHNICAL SUPPORT DIVISION
BASIC DATA SECTION

DECEMBER 19, 1991

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EXECUTIVE SUMMARY

Purpose

The purpose of this report is to summarize the water use reduction efforts of the major water retailers in Santa Clara County. These retailers represent 85% of the countywide water use. The annual countywide water use reduction goal for 1991, as adopted by the Board on March 26 is 25%, (as compared with 1987 usage) effective April 1, 1991.

DECEMBER STATUS

Three storms, two small and one moderate, brought some moisture to the area during December. Totals for the month ranged from 2.21 inches at San Jose to 6.06 inches in the west hills and 2.01 inches in the east foothills. These storms brought us to about 74% of average in the current 1991-92 season (beginning July 1, 1991).

Total reservoir storage of 16,490 acre-feet (9.7% of capacity) reported on January 1, 1992. Approximately 51% of this total is imported water. The last eight years' storage on January 1 is shown on page 5.

A 9.9% reduction in water use occurred during December as compared with 1987 usage. The end of year overall reduction is 28.4%.

Sewage treatment inflows are considered a good indication of indoor water use. Sewage treatment plant inflows in north county during December were 18.0% lower than 1987 flows. Total reduction for the year was 18.5%.

In the south county, the sewage plant inflows for December were 6.2% lower than in 1987, and 8.1% for the year.

The use of reclaimed water during December totaled 37.1 acre-feet which is a decrease in usage as compared to previous months. The total for 1991 was about 200 acre feet greater than 1990. The delivered amounts are shown in the table on page 7 of this report.

Groundwater

The two graphs on page 27 show the trend in groundwater levels in the two major Santa Clara County basins based on index well readings since 1975. The north county level remained stable. The Llagas index well showed a slight decline.

Groundwater pumping during December in north county was 12.3% less than during December 1987. The total reduction for 1991 equaled 46.8%, this is a 9% reduction from 1990 pumping.

Imported Water

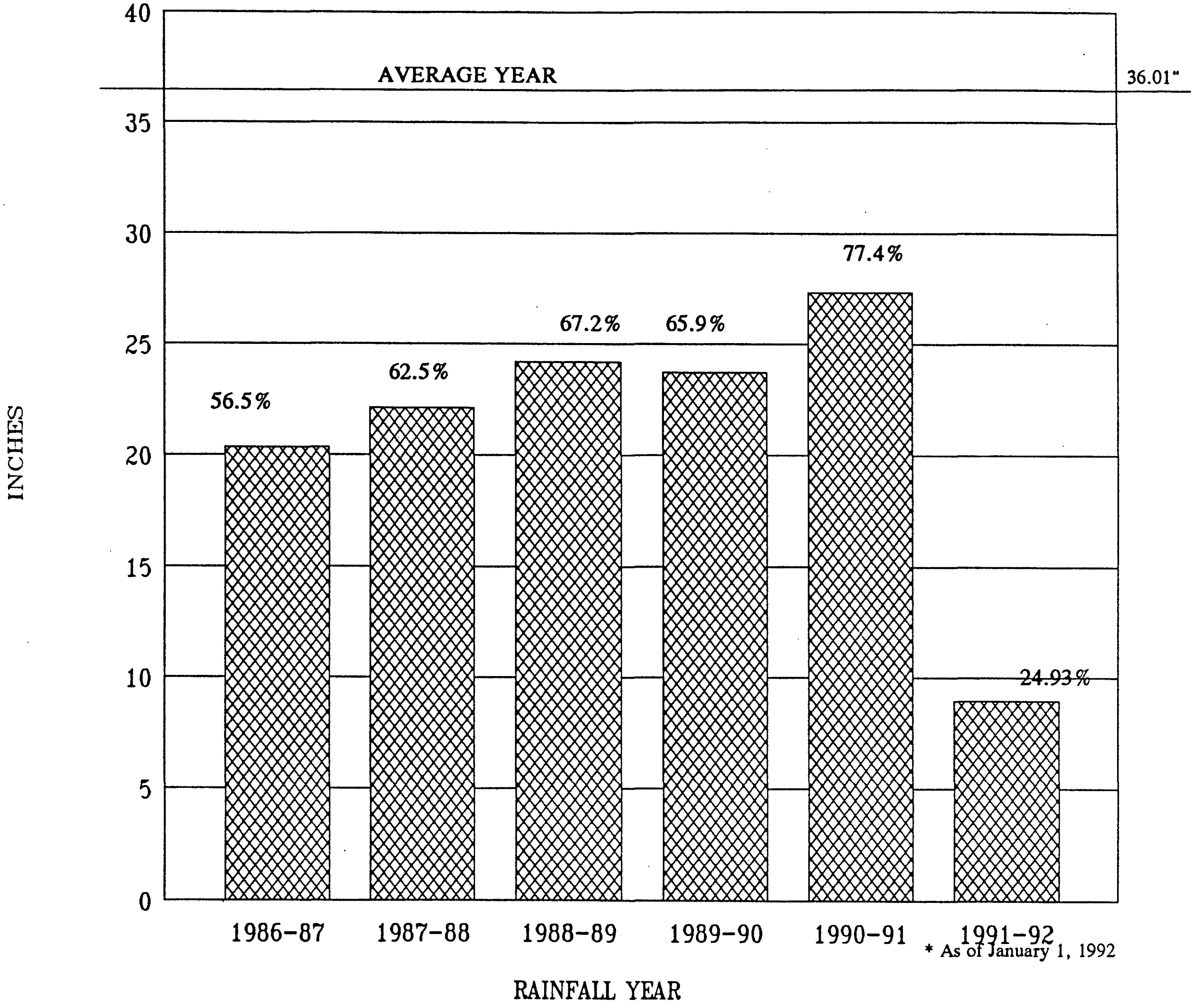
In February 1991, the District was expecting to receive only 25% of it's requested Bureau of Reclamation San Felipe allocation of 152,500 acre-feet. The State Department of Water Resources also indicated it would be delivering only 10% of the District's entitlement of 94,000 acre-feet. The City of San Francisco's Hetch Hetchy supply was expected to be reduced by 50%. Altogether, this "worst case" scenario would have resulted in an imported water supply of 116,000 acre feet for Santa Clara County, compared to a total requested supply of 348,000 acre-feet. These figures included the remaining 26,000 acre-feet of supplemental water purchased during 1989 from Yuba County, to be transferred to Santa Clara County via the State's South Bay Aqueduct.

WEATHER CONDITIONS

DECEMBER 1991

RAINFALL AT INDEX STATIONS

FROM JULY 1 to JUNE 30



* As of January 1, 1992

NOTE: Index Stations include Coe Park in the Mt. Hamilton Range and Valley Christian in the Santa Cruz Mountains. These two higher elevation stations are used to monitor the amount of watershed runoff that may be available for groundwater recharge.

30 AND 90 DAY OUTLOOK

EXCERPTS FROM THE NATIONAL WEATHER SERVICE FORECAST

30 DAY OUTLOOK ISSUED 15:00 EDT, JANUARY 14, 1992

AN AREA OF ABOVE NORMAL TEMPERATURES WITH AT LEAST A 55 PERCENT CHANCE LIES OVER COASTAL CENTRAL CALIFORNIA AND MUCH OF SOUTHERN CALIFORNIA.

THERE IS AT LEAST A 55 PERCENT CHANCE OF BELOW-MEDIAN PRECIPITATION OVER NORTHERN CALIFORNIA.

90 DAY OUTLOOK ISSUED 15:00 EDT, DECEMBER 30 1991

IN UNSPECIFIED AREAS THERE ARE NO SIGNIFICANT DEPARTURES OF TEMPERATURE OR PRECIPITATION PROBABILITIES FROM CLIMATOLOGY.

DISTRICT RESERVOIR STORAGE

	Local	Imported	Total	% of Capacity	% of Total Imported
January 1, 1985	71,801	0	71,801	42.4%	0.0%
January 1, 1986	28,522	0	28,522	16.8%	0.0%
January 1, 1987	67,549	4,007	71,556	42.3%	5.6%
January 1, 1988	10,755	3,854	14,609	8.6%	26.4%
January 1, 1989	3,179	4,002	7,181	4.2%	55.7%
January 1, 1990	11,549	7,669	19,218	11.4%	39.9%
January 1, 1991	1,831	12,822	14,653	8.7%	87.5%
January 1, 1992	7,995	8,495	16,490	9.7%	51.5%

WATER SUPPLY

DECEMBER 1991

SANTA CLARA VALLEY WATER DISTRICT

1991 Surface Water Supply and Use

Supply	December Acre-Feet	To Date Acre-Feet
SFWD, Hetch-Hetchy Aqueduct	3,222	46,959
State Water Project (via SBA) (Yuba, Placer and Emergency Bank)	7,074	87,253
CVP, San Felipe Division (Including Hardship)	2,390	48,375
Local Surface Water (SJWC/Stanford)	56	6,947
Local Surface Water (District)	3,370	83,655
Total	16,112	273,189
Use		
SFWD, Hetch-Hetchy Aqueduct	3,222	46,959
SJWC /Stanford	56	6,947
Treated Water	7,165	97,027
Reservoir Evaporation (District)	67	4,462
Groundwater Recharge/Irrigation	5,603	117,795
Total	16,112	273,189

16-Jan-92

WATER USE REDUCTIONS

DECEMBER 1991

WATER SAVINGS BY RETAILER

AS COMPARED TO 1987 USE

NORTH COUNTY RETAILERS

		% SAVINGS YEAR TO DATE	DECEMBER SAVINGS	ORDINANCE IN EFFECT
1	AGNEW	42.0%	4.0%	YES
2	CAL WATER	31.1%	1.7%	YES
3	CUPERTINO	31.1%	-7.1%	YES
4	GREAT OAKS	27.7%	9.5%	YES
5	MILPITAS	16.4%	0.2%	YES
6	MOUNTAIN VIEW	29.7%	10.3%	YES
7	MOFFETT	36.6%	30.3%	YES
8	PALO ALTO	35.9%	14.2%	YES
9	PURISSIMA	35.8%	0.5%	YES
10	SAN JOSE CITY	20.4%	-4.3%	YES
11	SAN JOSE WTR CO	27.6%	8.7%	YES
12	SANTA CLARA	34.3%	25.0%	YES
13	STANFORD	22.0%	8.0%	YES
14	SUNNYVALE	28.3%	11.1%	YES
	TOTAL	28.5%	10.0%	YEAR TO DATE 25% GOAL
	REDUCTION IN GROUNDWATER PUMPING	46.8%	12.3%	

SOUTH COUNTY RETAILERS

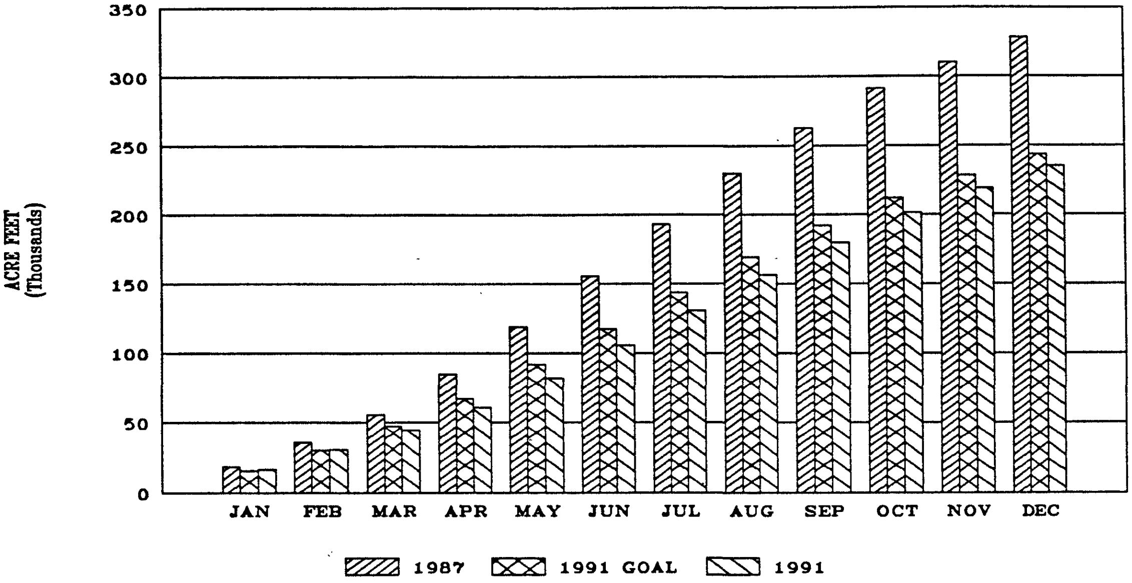
		% SAVINGS YEAR TO DATE	DECEMBER SAVINGS	ORDINANCE IN EFFECT
1	GILROY	17.1%	-13.0%	YES
2	MORGAN HILL	32.8%	22.8%	YES
	TOTAL	25.1%	7.2%	YEAR TO DATE 25% GOAL

ALL RETAILERS

	% SAVINGS YEAR TO DATE	DECEMBER SAVINGS	YEAR TO DATE GOAL
TOTAL	28.4%	9.9%	25%

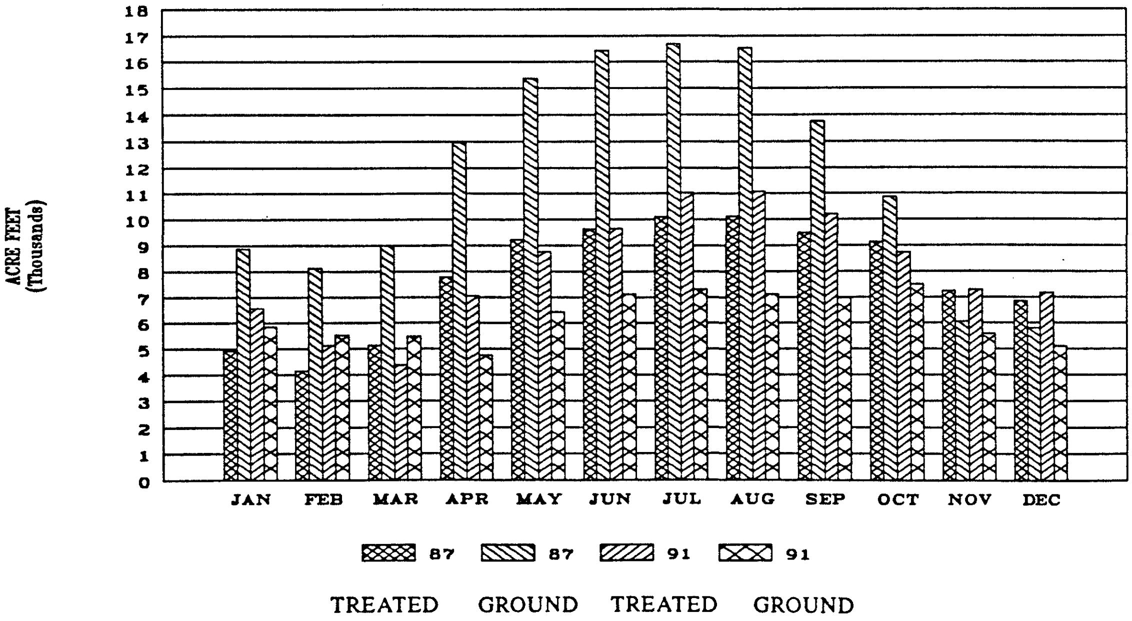
TOTAL MAJOR RETAILERS

1991 ACTUAL vs. 1991 GOAL



DEMAND — GROUNDWATER vs. TREATED

NORTH COUNTY 1987 vs 1991



INDIVIDUAL RETAILERS
WATER SAVINGS

DECEMBER 1991

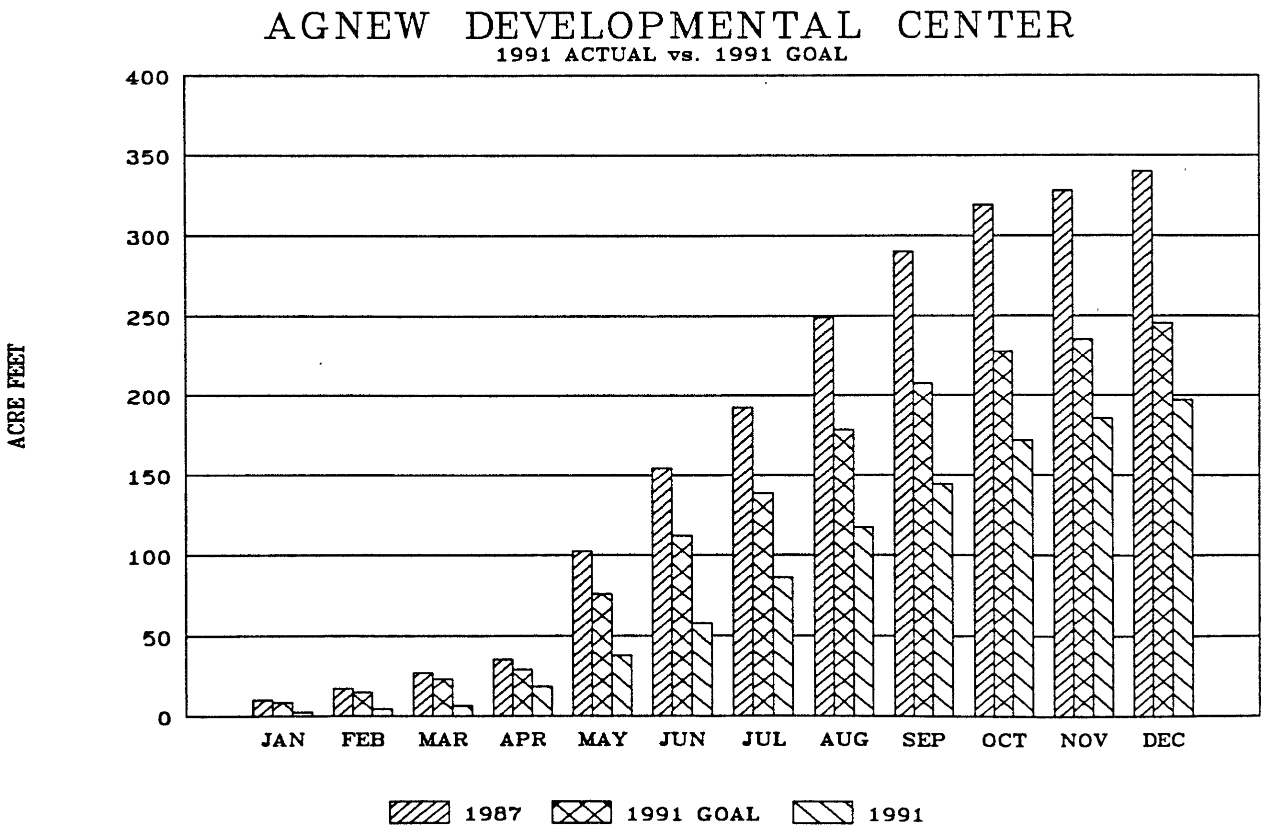
AGNEW DEVELOPMENTAL CENTER

1987	TREATED WATER	GROUND WATER*	HETCH HETCHY	AC. FT. TOTAL	1991 GOAL	1991	TREATED WATER	GROUND WATER*	HETCH HETCHY	AC. FT. TOTAL	% SAVINGS
JAN		2.43	7.50	9.93	8.44	JAN		0.00	2.27	2.27	77.14%
FEB		1.78	5.50	7.28	6.19	FEB		0.00	2.00	2.00	72.53%
MAR		2.46	7.60	10.06	8.55	MAR		0.00	2.00	2.00	80.12%
APR		2.06	6.36	8.42	5.89	APR		12.20	0.00	12.20	-44.90%
MAY		16.39	50.60	66.99	46.89	MAY		19.46	0.00	19.46	70.95%
JUN		12.63	39.00	51.63	36.14	JUN		15.64	3.82	19.46	62.31%
JUL		11.08	27.00	38.08	26.66	JUL		25.85	2.80	28.65	24.76%
AUG		16.51	40.24	56.75	39.73	AUG		30.48	0.79	31.27	44.89%
SEP		11.92	29.07	40.99	28.69	SEP		26.35	0.56	26.91	34.35%
OCT		8.42	20.52	28.94	20.26	OCT		26.81	0.50	27.31	5.65%
NOV		2.64	6.43	9.07	7.71	NOV		12.99	0.98	13.97	-54.02%
DEC		3.57	8.71	12.28	10.44	DEC		8.83	2.96	11.79	3.95%
TOTAL	0.00	91.89	248.53	340.42	245.59	TOTAL	0.00	178.61	18.68	197.29	42.04%

TOTAL	0.00	91.89	248.53	340.42	245.59	1987	TO DATE

NOTE: "TO DATE" IS CUMULATIVE TOTAL FOR SAME PERIOD IN 1987

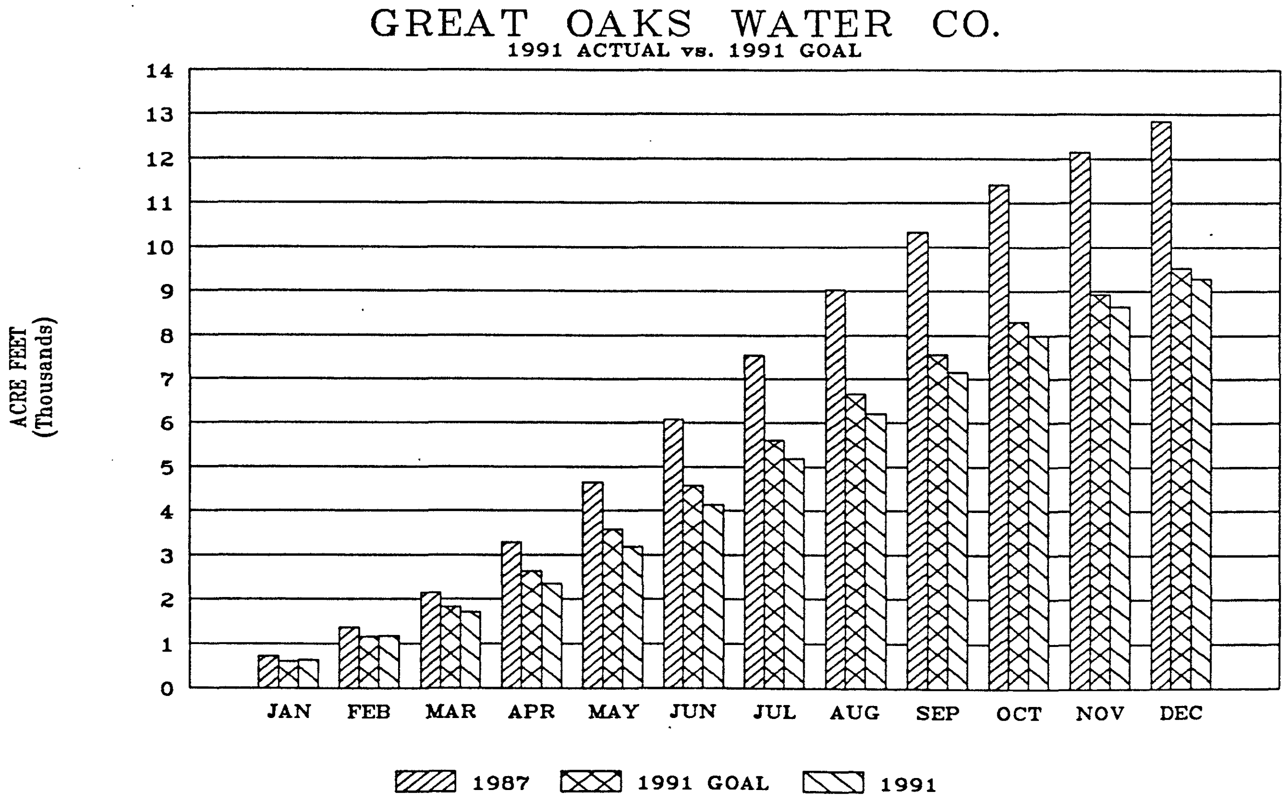
* REPORTED EVERY SIX MONTHS, DISTRIBUTED BY USE PATTERN



GREAT OAKS WATER CO.

1987	TREATED WATER	GROUND WATER	HETCH HETCHY	AC. FT. TOTAL	1991 GOAL	1991	TREATED WATER	GROUND WATER	HETCH HETCHY	AC. FT. TOTAL	% SAVINGS
JAN		713.99		713.99	606.89	JAN		629.91		629.91	11.78%
FEB		641.96		641.96	545.67	FEB		538.65		538.65	16.09%
MAR		787.74		787.74	669.58	MAR		542.51		542.51	31.13%
APR		1,140.06		1,140.06	798.04	APR		635.42		635.42	44.26%
MAY		1,361.48		1,361.48	953.04	MAY		833.60		833.60	38.77%
JUN		1,433.25		1,433.25	1,003.28	JUN		952.16		952.16	33.57%
JUL		1,473.18		1,473.18	1,031.23	JUL		1,059.88		1,059.88	28.06%
AUG		1,488.78		1,488.78	1,042.15	AUG		1,011.14		1,011.14	32.08%
SEP		1,299.73		1,299.73	909.81	SEP		946.36		946.36	27.19%
OCT		1,068.87		1,068.87	748.21	OCT		852.16		852.16	20.27%
NOV		741.79		741.79	630.52	NOV		650.80		650.80	12.27%
DEC		693.78		693.78	589.71	DEC		628.01		628.01	9.48%
TOTAL	0.00	12,844.61	0.00	12,844.61	9,528.12	TOTAL	0.00	9,280.59	0.00	9,280.59	27.75%
TOTAL	0.00	12,844.61	0.00	12,844.61	9,528.12	1987	TO DATE				

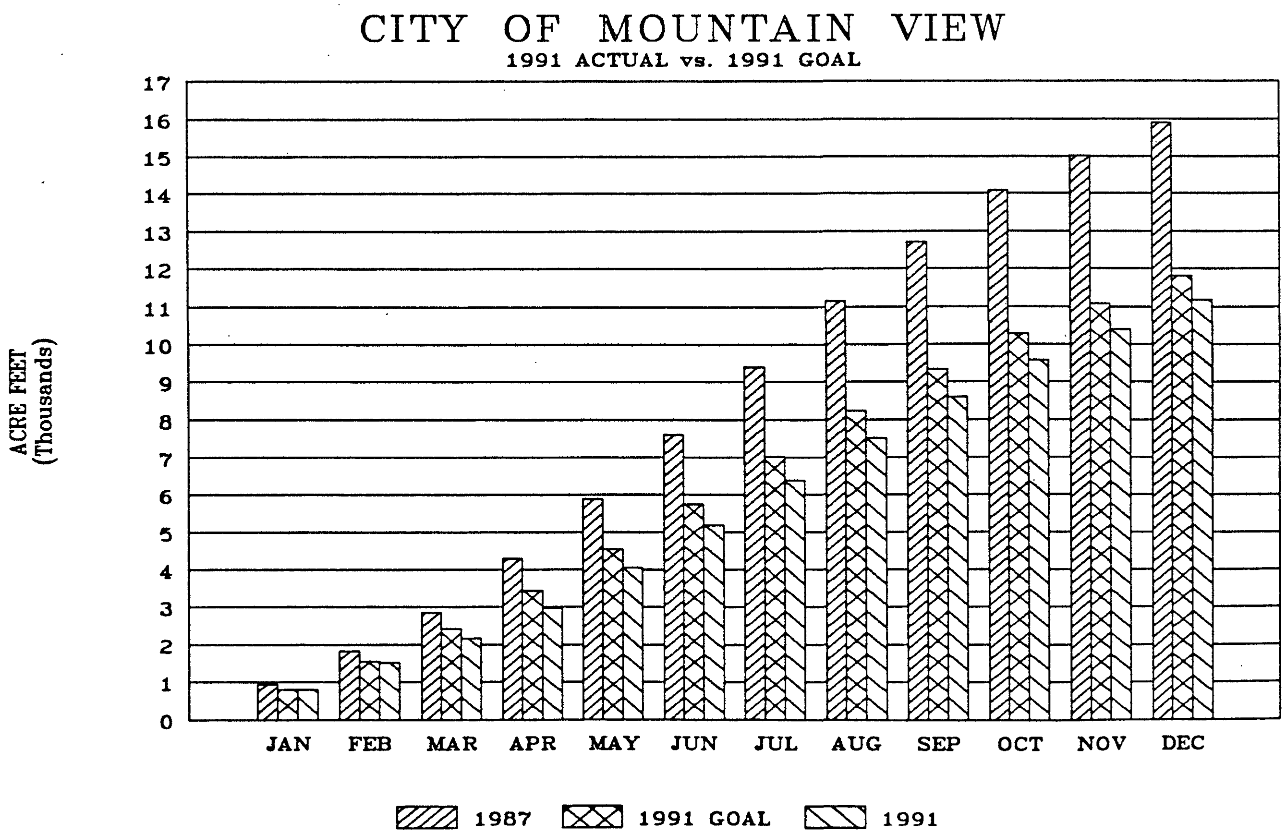
NOTE: "TO DATE" IS CUMULATIVE FOR SAME PERIOD IN 1987



CITY OF MOUNTAIN VIEW

1987	TREATED WATER	GROUND WATER	HETCH HETCHY	AC. FT. TOTAL	1991 GOAL	1991	TREATED WATER	GROUND WATER	HETCH HETCHY	AC. FT. TOTAL	% SAVINGS
JAN	0.00	94.95	846.20	941.15	799.98	JAN		201.60	598.61	800.21	14.98%
FEB	0.00	76.32	804.69	881.01	748.86	FEB		185.00	520.00	705.00	19.98%
MAR	0.00	70.58	960.60	1,031.18	876.50	MAR		195.95	459.84	655.79	36.40%
APR	0.00	62.36	1,376.65	1,439.01	1,007.31	APR	73.62	163.00	576.80	813.42	43.47%
MAY	0.00	55.45	1,546.47	1,601.92	1,121.34	MAY	104.13	185.15	794.31	1,083.59	32.36%
JUN	0.00	68.26	1,637.22	1,705.48	1,193.84	JUN	116.40	145.24	862.01	1,123.65	34.12%
JUL	0.00	55.75	1,748.97	1,804.72	1,263.30	JUL	127.88	123.45	944.30	1,195.62	33.75%
AUG	0.00	61.33	1,688.40	1,749.73	1,224.81	AUG	122.26	100.99	921.65	1,144.91	34.57%
SEP	0.00	48.53	1,504.99	1,553.52	1,087.46	SEP	108.55	109.12	845.57	1,063.24	31.56%
OCT	0.00	39.03	1,324.97	1,364.00	954.80	OCT	95.72	112.44	788.00	996.16	26.97%
NOV	0.00	39.94	897.91	937.85	797.17	NOV	73.84	68.95	660.02	802.81	14.40%
DEC	0.00	39.77	835.74	875.51	744.18	DEC	68.47	1.78	714.77	785.02	10.34%
TOTAL	0.00	712.27	15,172.81	15,885.08	11,819.56	TOTAL	890.87	1,592.67	8,685.88	11,169.42	29.69%
TOTAL	0.00	712.27	15,172.81	15,885.08	11,819.56	1987	TO DATE				

NOTE: "TO DATE" IS CUMULATIVE TOTAL FOR SAME PERIOD IN 1987



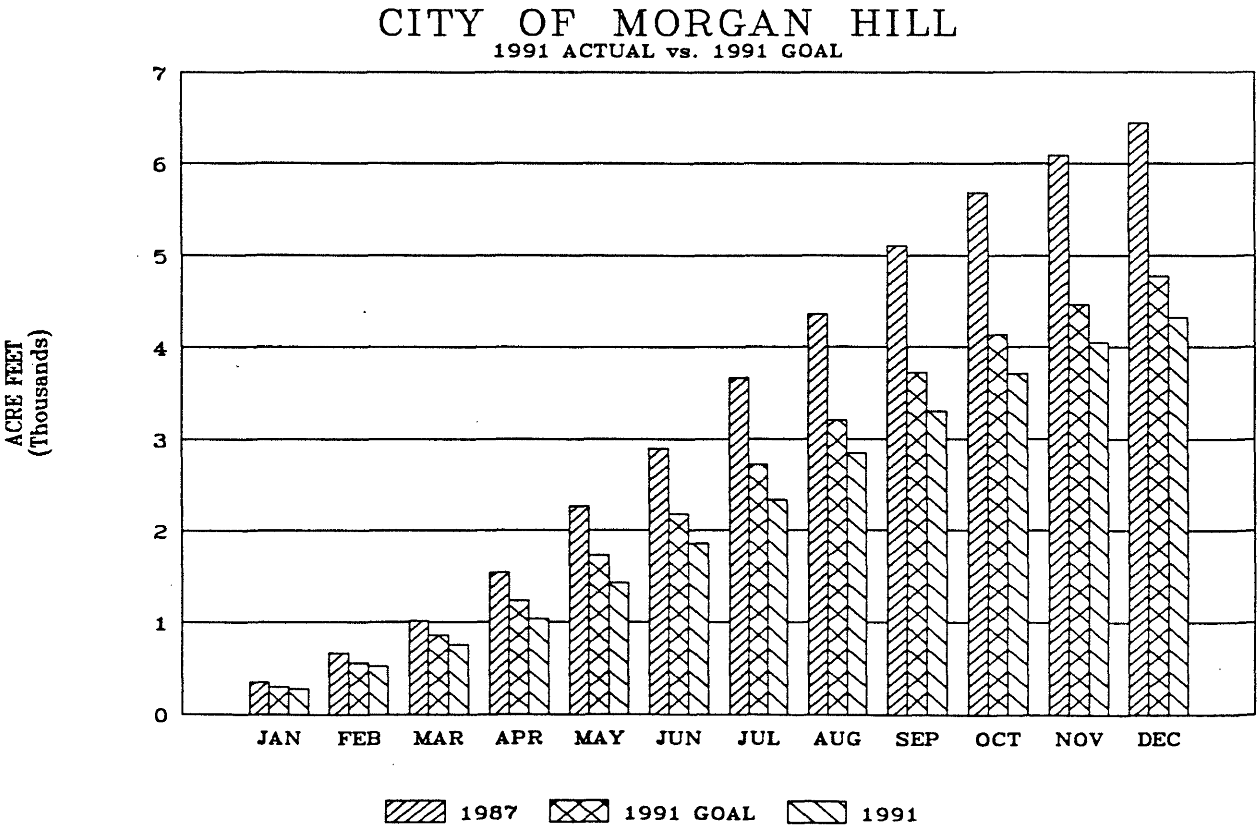
CITY OF MOUNTAIN VIEW

1991 ACTUAL vs. 1991 GOAL

CITY OF MORGAN HILL

1987	TREATED WATER	GROUND WATER	HETCH HETCHY	AC. FT. TOTAL	1991 GOAL	1991	TREATED WATER	GROUND WATER	LOCAL WATER	AC. FT. TOTAL	% SAVINGS
JAN		351.00		351.00	298.35	JAN		275.50		275.50	21.51%
FEB		309.00		309.00	262.65	FEB		247.90		247.90	19.77%
MAR		352.80		352.80	299.88	MAR		227.40		227.40	35.54%
APR		526.00		526.00	368.20	APR		286.60		286.60	45.51%
MAY		720.10		720.10	504.07	MAY		387.50		387.50	46.19%
JUN		639.60		639.60	447.72	JUN		433.60		433.60	32.21%
JUL		768.76		768.76	538.13	JUL		472.00		472.00	38.60%
AUG		693.02		693.02	485.11	AUG		515.00		515.00	25.69%
SEP		743.90		743.90	520.73	SEP		457.00		457.00	38.57%
OCT		586.24		586.24	410.37	OCT		405.00		405.00	30.92%
NOV		393.00		393.00	334.05	NOV		344.00		344.00	12.47%
DEC		354.80		354.80	301.58	DEC		274.00		274.00	22.77%
TOTAL	0.00	6,438.22	0.00	6,438.22	4,770.84	TOTAL	0.00	4,325.50	0.00	4,325.50	32.82%
TOTAL	0.00	6,438.22	0.00	6,438.22	4,770.84	1987	TO DATE				

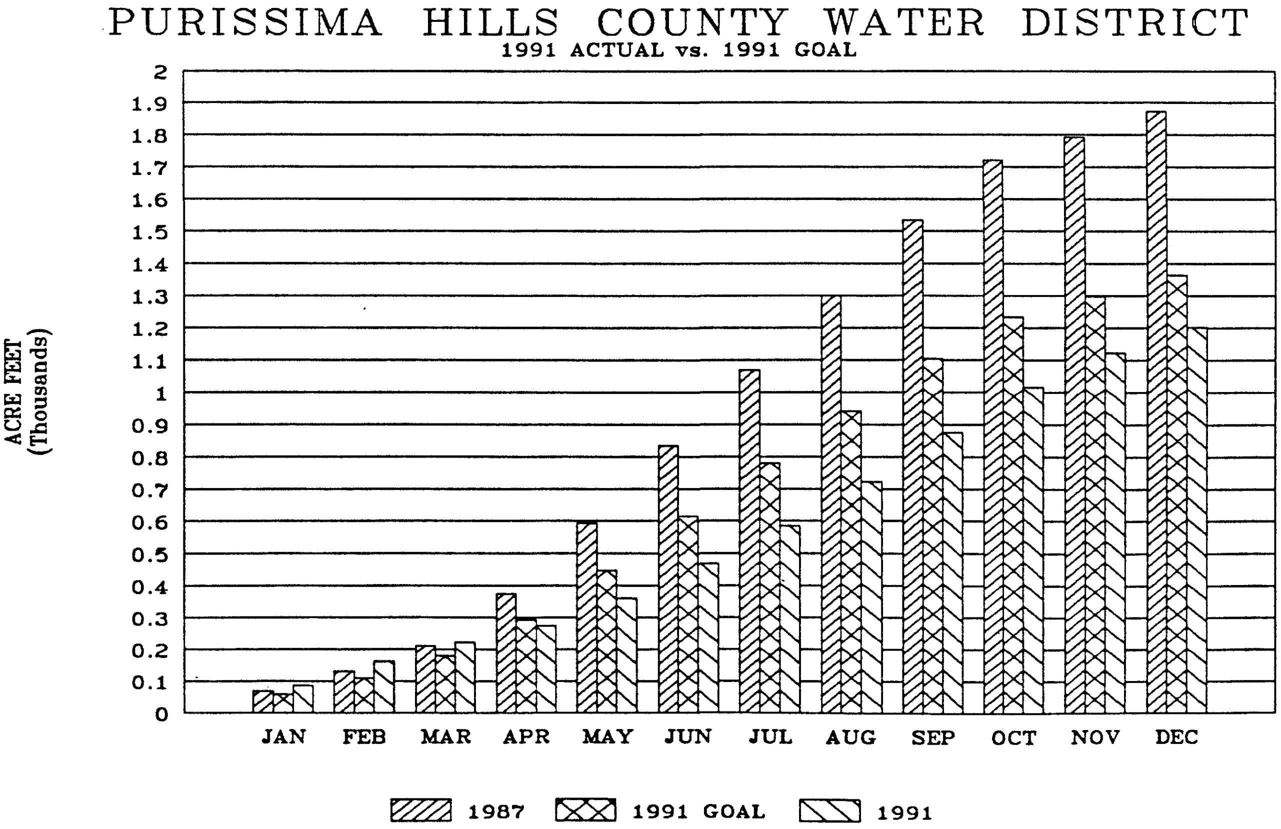
NOTE: "TO DATE" IS CUMULATIVE TOTAL FOR SAME PERIOD IN 1987



PURISSIMA HILLS COUNTY WATER DISTRICT

1987	TREATED WATER	GROUND WATER	HETCH HETCHY	AC. FT. TOTAL	1991 GOAL	1991	TREATED WATER	GROUND WATER	HETCH HETCHY	AC. FT. TOTAL	% SAVINGS
JAN			67.03	67.03	56.98	JAN			85.56	85.56	-27.64%
FEB			62.66	62.66	53.26	FEB			76.00	76.00	-21.29%
MAR			80.12	80.12	68.10	MAR			60.00	60.00	25.11%
APR			162.93	162.93	114.05	APR			51.12	51.12	68.62%
MAY			218.87	218.87	153.21	MAY			86.39	86.39	60.53%
JUN			241.55	241.55	169.09	JUN			108.23	108.23	55.19%
JUL			235.24	235.24	164.67	JUL			115.79	115.79	50.78%
AUG			233.00	233.00	163.10	AUG			137.79	137.79	40.86%
SEP			232.13	232.13	162.49	SEP			153.95	153.95	33.68%
OCT			186.15	186.15	130.31	OCT			141.28	141.28	24.10%
NOV			73.00	73.00	62.05	NOV			106.28	106.28	-45.59%
DEC			80.00	80.00	68.00	DEC			79.61	79.61	0.49%
TOTAL	0.00	0.00	1,872.68	1,872.68	1,365.30	TOTAL	0.00	0.00	1,202.00	1,202.00	35.81%
TOTAL	0.00	0.00	1,872.68	1,872.68	1,365.30	1987	TO DATE				

NOTE: "TO DATE" IS CUMULATIVE TOTAL FOR SAME PERIOD IN 1987

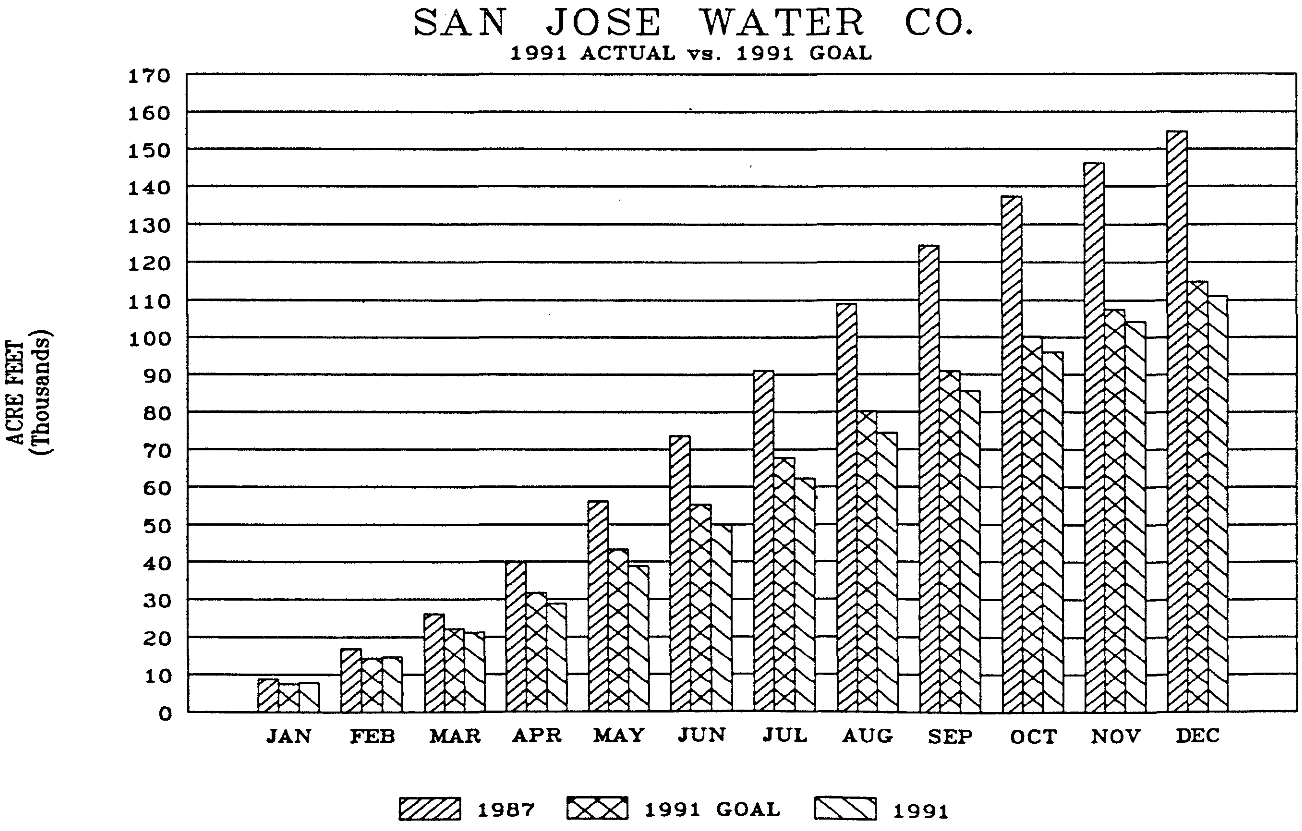


SAN JOSE WATER CO.

1987	TREATED WATER	GROUND WATER	LOCAL WATER	AC. FT. TOTAL	1991 GOAL	1991	TREATED WATER	GROUND WATER	LOCAL WATER	AC. FT. TOTAL	% SAVINGS
JAN	2,918.71	5,886.49	67.21	8,872.41	7,541.55	JAN	4,002.64	3,876.79	12.05	7,891.48	11.06%
FEB	2,485.63	5,252.12	221.67	7,959.42	6,765.51	FEB	3,520.88	3,228.15	4.60	6,753.63	15.15%
MAR	2,976.88	5,869.34	462.98	9,309.20	7,912.82	MAR	2,838.48	2,794.57	983.09	6,616.14	28.93%
APR	4,473.66	8,796.77	374.93	13,645.36	9,551.75	APR	4,904.97	1,918.92	731.14	7,555.03	44.63%
MAY	5,541.74	10,198.12	650.30	16,390.16	11,473.11	MAY	6,179.68	2,932.83	808.90	9,921.41	39.47%
JUN	5,681.06	10,849.96	632.04	17,163.06	12,014.14	JUN	6,550.25	3,611.69	987.37	11,149.31	35.04%
JUL	6,256.75	10,877.87	610.68	17,745.30	12,421.71	JUL	7,220.60	3,952.94	1,173.10	12,346.64	30.42%
AUG	6,333.54	10,829.34	607.64	17,770.52	12,439.36	AUG	7,158.44	3,946.43	958.78	12,063.65	32.11%
SEP	5,998.39	9,062.81	351.70	15,412.90	10,789.03	SEP	6,472.95	4,415.63	424.10	11,312.68	26.60%
OCT	5,843.26	6,963.84	266.07	13,073.17	9,151.22	OCT	5,404.44	4,833.13	209.96	10,447.52	20.08%
NOV	4,827.81	3,874.30	126.13	8,828.24	7,504.00	NOV	4,425.15	3,670.37	99.51	8,195.03	7.17%
DEC	4,538.23	3,786.33	205.62	8,530.18	7,250.65	DEC	4,413.45	3,331.13	41.37	7,785.95	8.72%
TOTAL	57,875.66	92,247.29	4,576.97	154,699.92	114,814.86	TOTAL	63,091.93	42,512.57	6,433.97	112,038.47	27.58%

TOTAL	57,875.66	92,247.29	4,576.97	154,699.92	114,814.86	1987	TO DATE

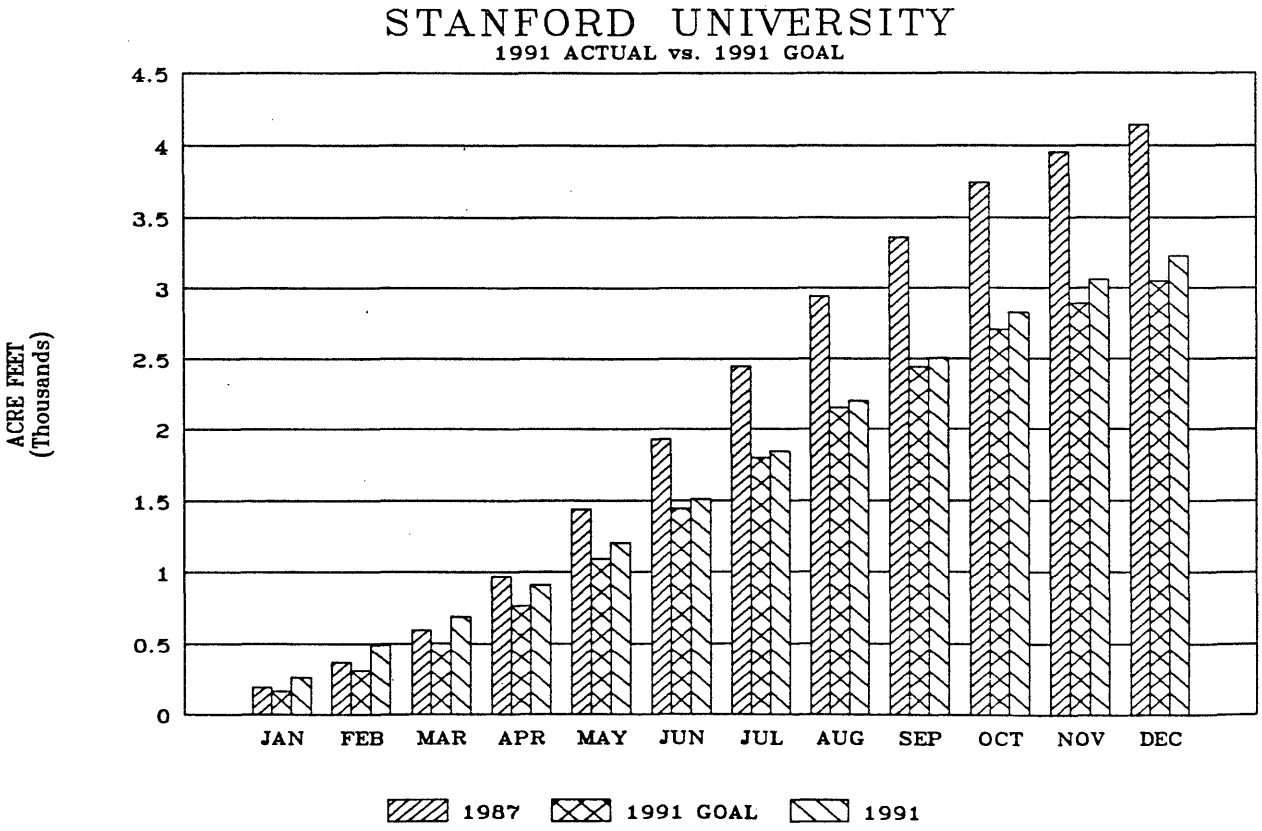
NOTE: "TO DATE" IS CUMULATIVE TOTAL FOR SAME PERIOD IN 1987



STANFORD UNIVERSITY

1987	LOCAL WATER	GROUND WATER	HETCH HETCHY	AC. FT. TOTAL	1991 GOAL	1991	LOCAL WATER	GROUND WATER	HETCH HETCHY	AC. FT. TOTAL	% SAVINGS
JAN	1.99	0.00	191.01	193.00	164.05	JAN	18.43	103.35	135.88	257.66	-33.50%
FEB	2.48	0.00	171.66	174.14	148.02	FEB	4.72	118.92	110.56	234.20	-34.49%
MAR	8.52	0.00	218.94	227.46	193.34	MAR	5.52	78.51	115.09	199.12	12.46%
APR	50.11	0.00	327.40	377.51	264.26	APR	34.05	62.83	125.68	222.56	41.05%
MAY	92.66	0.00	369.52	462.18	323.53	MAY	43.17	72.66	176.02	291.85	36.85%
JUN	115.94	0.00	378.84	494.78	346.35	JUN	28.84	53.85	220.16	302.85	38.79%
JUL	114.49	0.00	399.76	514.25	359.98	JUL	89.77	1.20	244.71	335.68	34.72%
AUG	130.02	0.00	370.69	500.71	350.50	AUG	108.72	0.00	247.90	356.62	28.78%
SEP	96.02	0.00	317.33	413.35	289.34	SEP	77.28	0.10	226.82	304.20	26.41%
OCT	61.70	0.00	323.76	385.46	269.82	OCT	59.96	1.66	260.66	322.28	16.39%
NOV	29.64	0.00	182.76	212.40	180.54	NOV	27.55	5.55	200.64	233.73	-10.04%
DEC	9.30	0.00	174.15	183.45	155.93	DEC	14.62	0.02	154.16	168.80	7.98%
TOTAL	712.87	0.00	3,425.82	4,138.69	3,045.65	TOTAL	512.63	498.65	2,218.28	3,229.55	21.97%
TOTAL	712.87	0.00	3,425.82	4,138.69	3,045.65	1987	TO DATE				

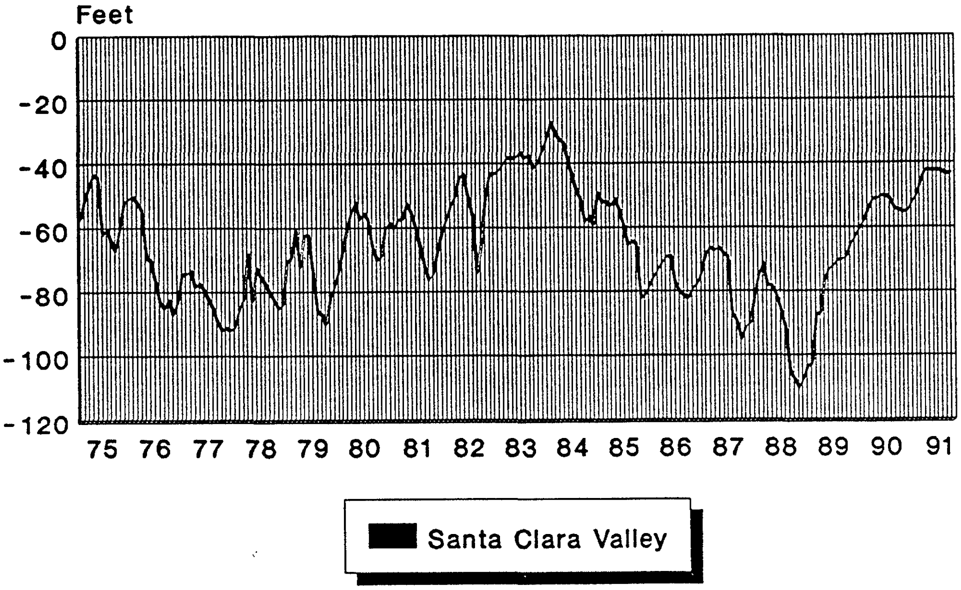
NOTE: "TO DATE" IS CUMULATIVE TOTAL FOR SAME PERIOD IN 1987

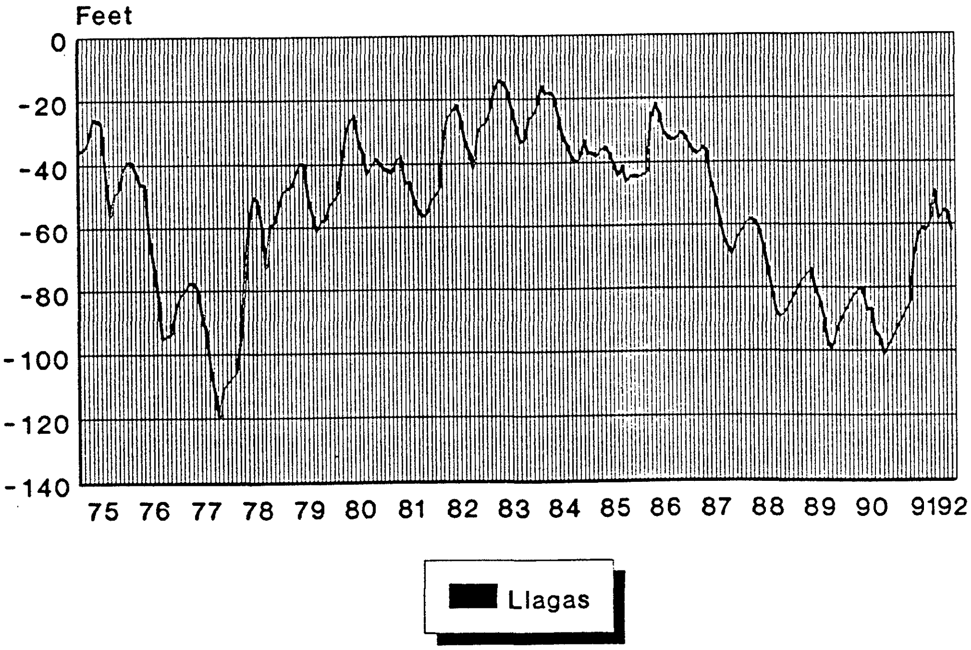


GROUNDWATER CONDITIONS

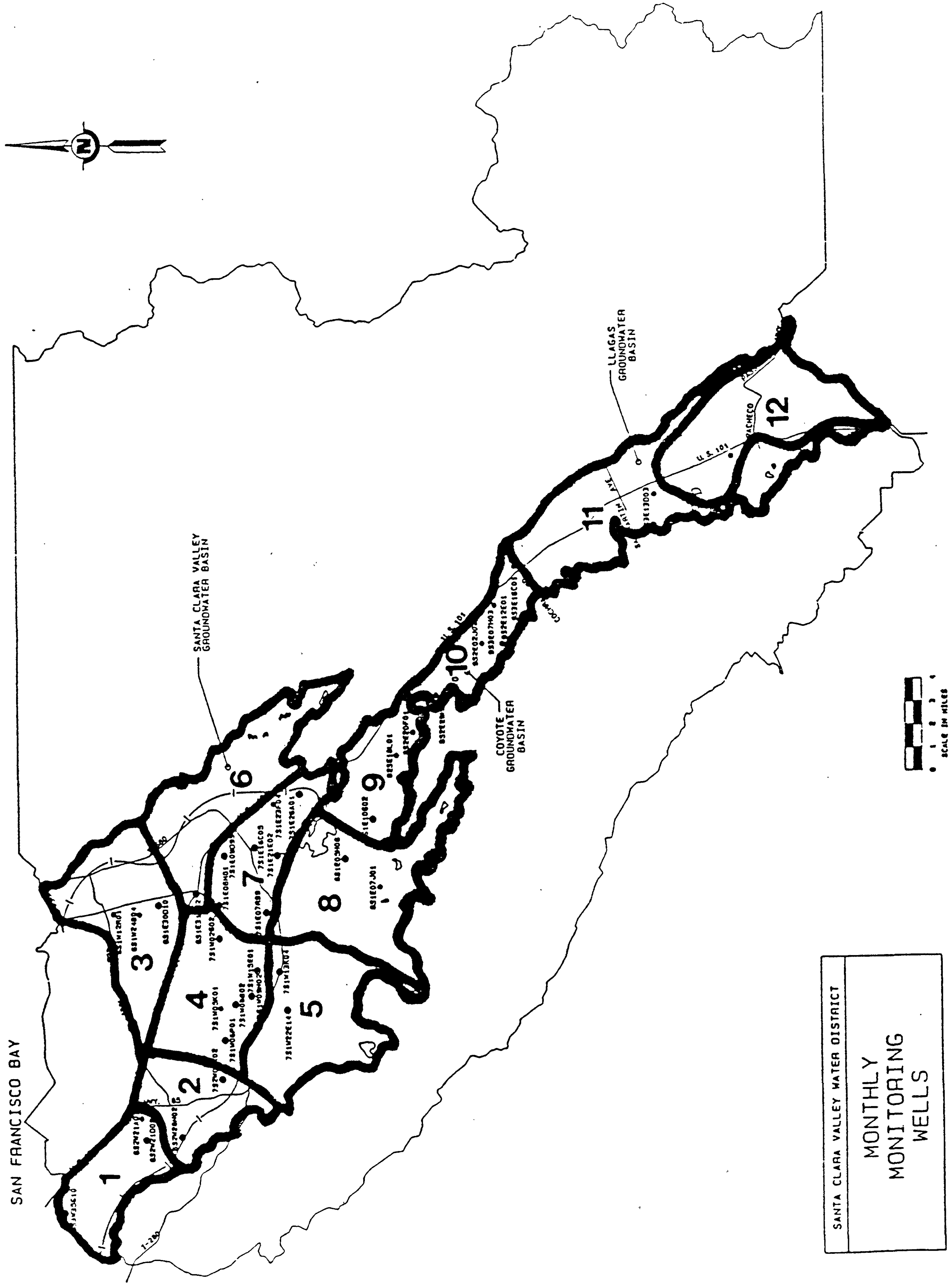
DECEMBER 1991

DEPTH TO WATER
Santa Clara Valley GWB's





January 15, 1992



SANTA CLARA VALLEY WATER DISTRICT

MONTHLY
MONITORING
WELLS

STATUS OF DROUGHT PLANS
CITIES AND COUNTY

DECEMBER 1991

STATUS OF CITIES' AND RETAILERS' DROUGHT PLANS

CITY/RETAILER	1987 USAGE	% OF TOTAL	% SAVINGS TO DATE	ALLOCATION ON BILLS	BANKING	PENALTIES	ORDINANCE/ RESTRICTIONS
CAL WATER	14,926	4.7%	31.1%	YES	YES	EXCESS USE CHARGE	YES
CUPERTINO	3,433	1.1%	31.1%	NO	NO	INVERTED RATES	YES
GILROY	6,146	1.9%	17.1%	NO	NO	INVERTED RATES	YES
GREAT OAKS	12,845	4.0%	27.7%	YES	NO	NO	YES
MILPITAS	10,195	3.2%	16.4%	YES	YES	EXCESS USE CHARGE	YES
MOUNTAIN VIEW	15,885	5.0%	29.7%	NO	NO	INVERTED RATES	YES
MORGAN HILL	6,439	2.0%	32.8%	NO	NO	INVERTED RATES	YES
PALO ALTO	17,792	5.6%	35.9%	NO	NO	INVERTED RATES	YES
SAN JOSE CITY	13,980	4.4%	20.4%	YES	YES	EXCESS USE CHARGE	YES
SAN JOSE WATER CO.	154,700	48.4%	27.6%	YES	YES	EXCESS USE CHARGE	YES
SANTA CLARA	32,823	10.3%	34.3%	YES	YES	EXCESS USE CHARGE	YES
SUNNYVALE	30,700	9.6%	28.3%	NO	NO	INVERTED RATES	YES
TOTAL	319,864	100.0%	28.3%	6	5	11	12

16-Jan-92

PUBLIC INFORMATION ACTIVITIES

DECEMBER 1991

PUBLIC INFORMATION DROUGHT UPDATE

Telephone Calls Relating to the Drought: 500

Water Conservation Materials Distributed: 8,727

Speaker's Bureau Requests: 2